



Soltech

SOLA **R**EVOLUTION

SOLTECH ENERGIES (P) LTD.

YOUR ENERGY SOLUTION

MANUFACTURER | DISTRIBUTOR | CONSULTANT

About Our Company

Established in 2004, Soltech Energies embarked with a dream: to emerge as a key player in India's green transformation through Renewable Energy. Today, we proudly manufacture PV Solar Modules, Solar Street Lights, and Lithium batteries, advancing sustainability across the nation. Our vision extends beyond, envisioning a future where clean energy powers every corner of India

Our Products & Services



Solar PV Module



Solar Street Light

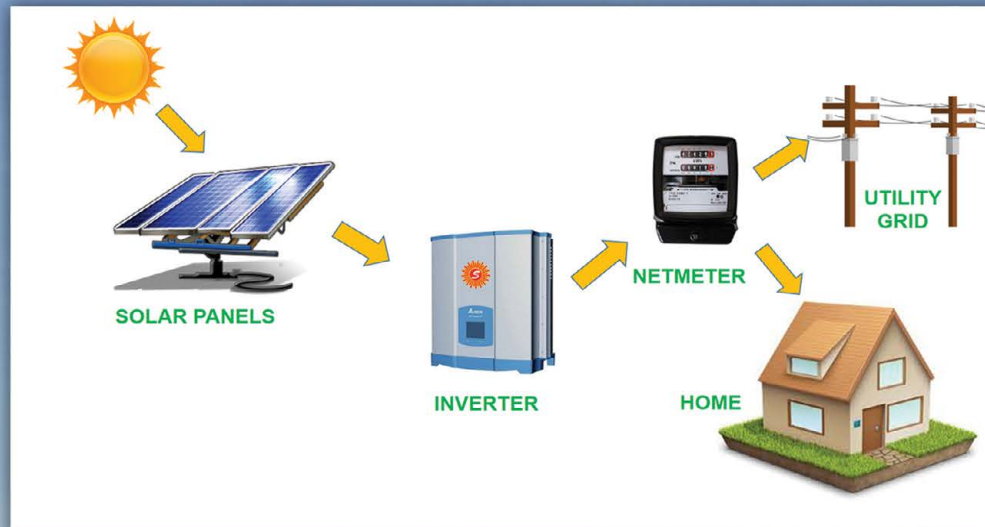


Solar Lithium Battery

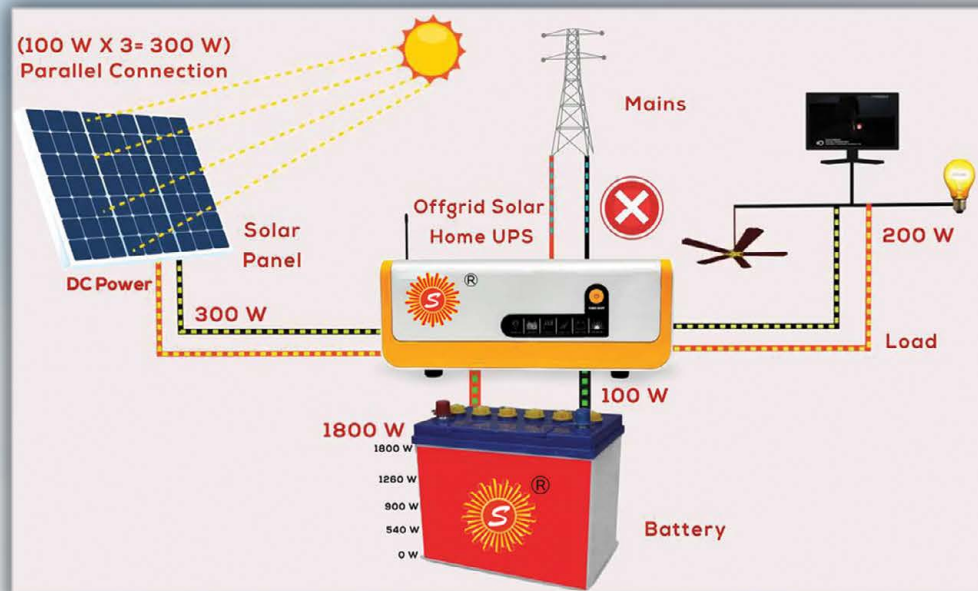


Solar Flood Light

Solar On-Grid System



Solar Hybrid / Off Grid System



Water Heater System Domestic & Commercial



Solar Water Heater ETC

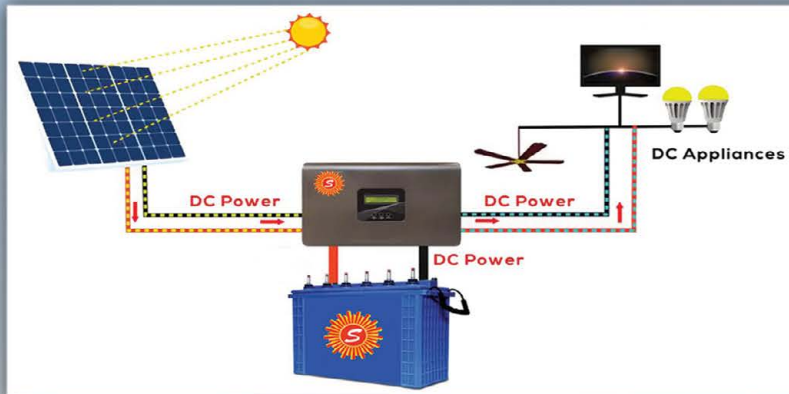


Solar Water Heater FPC

Solar Water Pumping System



Solar LED Home Lighting System



Solar LED Lantern



OUR CUSTOMERS:

WBREDA, AEDA, NF RAIL, ONGC, NTPC, INDIAN POST, IACS, PWD, BSF, DLF, BINANI GROUP,
OTHER CENTRAL AND STATE AGENCIES

SOLTECH ENERGIES (P) LTD.

📍 B.C-257, SAMARPALLY, KRISHNAPUR, KOLKATA - 700102

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✉ soltech_energies@yahoo.com

🌐 www.anshsolar.in

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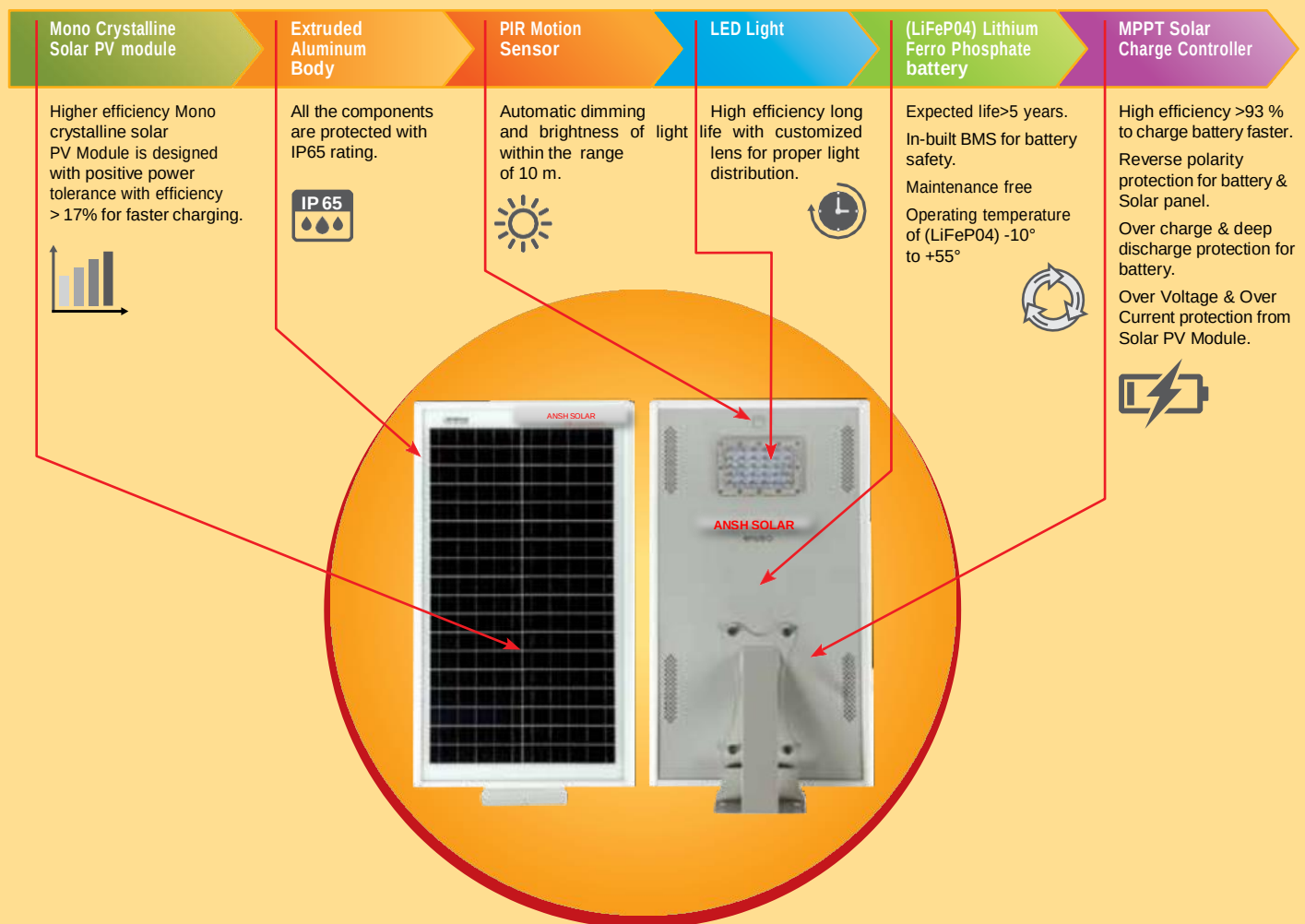
AIO ALL-IN-ONE SOLAR STREET LIGHT.



Introduction

ANSH SOLAR AIO ALL-IN-ONE Solar Street Light is Made in India with High Efficiency Mono Crystalline/ Poly Crystalline Solar PV Module, Lithium Ferro Phosphate battery with in-built BMS technology, High Efficacy LED, MPPT Solar Charge Controller and Aluminium Extruded body. ALL-IN-ONE SSL is specially designed with automatic control the dimming and brightness of light, which increases the backup time.

Product Features



Indications

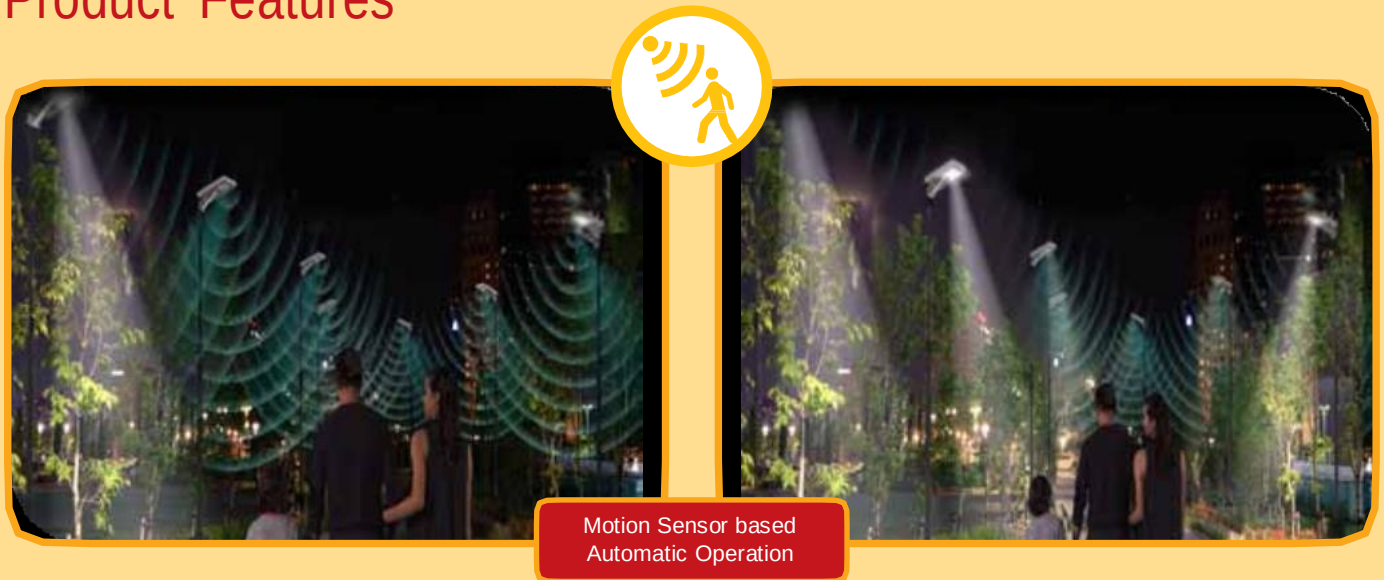


RED LED
for battery Low



GREEN LED
for Solar Charging

Product Features



Product Applications



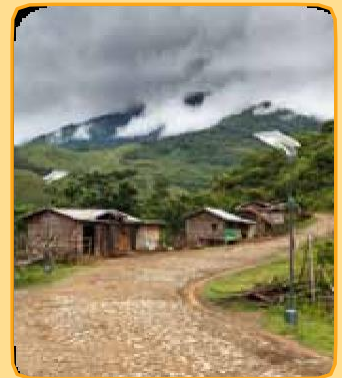
Factory/ Industry



Park



School | College | University



Village Lighting

Advantages

- Lithium Ferro Phosphate (LiFeP04) battery with long life
- Maintenance free system
- Inbuilt BMS (battery management system) for battery safety
- Longer shelf life of battery for storage
- All Components are integrated inside one unit which make it theft retardant system
- Easy to install on the existing pole or on wall
- Easy to transport, Store
- MADE IN INDIA

Product Range



7 W / 9 W / 12 W



15 W / 18 W / 20 W



24 W



30 W

Technical detail

Model No.	LHSTAKU7CBAF 007	LHSTAKU7CBAF 009	LHSTAKU7CBAF 012	LHSTAKU7CBAF 015	LHSTAKU7CBAF 018	LHSTAKU7CBAF 020	LHSTAKU7CBAF 024	LHSTAKU7CBAF 030
Solar panel	20 W	20 W	30 W	40 W	40 W	50 W	60 W	70 W
LED power	7 W	9 W	12 W	15 W	18 W	20 W	24 W	30 W
Battery capacity	10.5 Ah	10.5 Ah	14 Ah	18 Ah	21 Ah	24 Ah	30 Ah	36 Ah
Lumen(lm)	>945 lm	>1150 lm	>1500 lm	>2000 lm	>2300 lm	>2650 lm	>3120 lm	>3800 lm
LED life time	50000 h	50000 h	50000 h	50000 h	50000 h	50000 h	50000 h	50000 h
Viewing angle	120°	120°	120°	120°	120°	120°	120°	120°
Charging time	1 day	1 day	1 day	1 day	1 day	1 day	1 day	1 day
Autonomy	2 days	2 days	2 days	2 days	2 days	2 days	2 days	2 days
CCT(K)	5700 K	5700 K	5700 K	5700 K	5700 K	5700 K	5700 K	5700 K
Mounting height	4 m	4 m	5 m	5 m	5-6 m	5-6 m	5-6 m	5-6 m
Working temp	-10 °C -+55 °C	-10 °C -+ 55 °C	-10 °C -+ 55 °C	-10 °C -+ 55 °C	-10 °C -+ 55 °C	-10 °C -+55 °C	-10 °C -+55 °C	-10 °C -+55 °C
Dimension(mm)	450 x 382 x 55	450 x 382 x 55	656 x 382 x 55	791 x 382 x 55	791 x 382 x 55	1026 x 382 x 55	1230 x 382 x 55	1320 x 382 x 55
Net weight	8.0 kg	8.4 kg	9.0 kg	11.0 kg	11.5 kg	16.5 kg	18.5 kg	19 kg

Precaution for Installation

1. Install AIO Light with Solar PV Module facing South direction
2. Clean the Solar PV module Frequently



ANSH SOLAR

FACTORY: BC-257, SAMARPALLY, KRISHNAPUR, KOLKATA-700102.

E-mail: info@anshsolar.in, Website: www.anshsolar.in

Consumer Care No.: 9330174170

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**ANSH SOLAR****Semi Integrated Solar Street Light**LM 79
LM 80

Model	Light Wattage	Battery (LiFePO4)	*Module
AS-1212-LFP	12Watt	12Ah / 12.8 V	50Wp
AS-1518-LFP	15Watt	18Ah / 12.8 V	75Wp
AS-1818-LFP	18Watt	18Ah / 12.8 V	75Wp
AS-1824-LFP	18Watt	24Ah / 12.8 V	100Wp
AS-2024-LFP	20Watt	24Ah / 12.8 V	100Wp
AS-2424-LFP	24Watt	24Ah / 12.8 V	100Wp
AS-2430-LFP	24Watt	30Ah / 12.8 V	150Wp
AS-3030-LFP	30Watt	30Ah / 12.8 V	150Wp

OPERATION	Full bright mode for 5 Hrs, after that dimming to 40%
DUSK TO DAWN	Available
PROTECTION	Battery deep discharge, Over Charge, Short Circuit, Reverse Current, Reverse Polarity
HOUSING MATERIAL	Pressure Die cast Alluminium Alloy
IP Rating	IP65
CHARGE CONTROLLER TYPE	PWM/MPPT
CHARGE CONTROLLER Efficiency	>90%
MOTION SENSOR	Optional
BATTERY TYPE	LiFePO4
LED INDICATION	Battery Charging, Battery Full, Low Battery
CCT	5500K to 6500K
LUMINOUS FLUX	>120LM
RECOMMENDED HEIGHT OF POLE	5-6 Mtr
RECOMMENDED LUMINARY ARM OD	42 mm

Manufacturing Facility : Ansh Solar, Samarpally, Kestopur, Kolkata - 700102, West Bengal, India

MODEL-AS/LM/SL

INBUILT DC STREET LIGHT EXTRA BRIGHT

FEATURES:

- Inbuilt LiFePo4 Battery
- IP66 Water Resistant Rating
- Lens For Extra Brightness
- MNRE, BIS, ISO Certified



FRONT



REAR



MODEL-AS / INBFL / FL

INBUILT DC FLOOD LIGHT EXTRA BRIGHT

FEATURES:

- Lens for Extra Brightness
- Inbuilt LIFEPO4 Battery
- IP 66 Rating



MODEL-AS / GM / SL

INBUILT DC STREET LIGHT EXTRA BRIGHT

FEATURES:

- Inbuilt LiFePo4 Battery
- IP66 Water Resistant Rating
- Lens For Extra Brightness
- MNRE, BIS, ISO Certified



FRONT



REAR





An Unit of Soltech Energies
PVT.LTD



FLOOD LIGHT EXTRA BRIGHT

BC-257, Samarpally,
Krishnapur,
Kolkata-700102

Explore Our
Products



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ANSH SOLAR
An Unit of Soltech Energies
PVT.LTD



DC:LED Street Light

Available in

**30W, 40W, 45W, 50W,
60W**

📍 **BC-257, Samarpally,
Krishnapur,
Kolkata-700102**

Phone: 9330174170 | Email- info@anshsolar.in | www.anshsolar.in Follow Us On:  



ANSH SOLAR
AN UNIT OF SOLTECH ENERGIES PVT. LTD



LITHIUM FERRO BATTERY

POWERFUL • RELIABLE • SUSTAINABLE



VOLTAGE RANGE
12.8V - 25.6V



CAPACITY RANGE
06AH - 200AH



CYCLE LIFE
**3000+
CYCLES**



BMS PROTECTION
**SAFE &
SMART**



AVAILABLE RANGE



12.8V
06AH - 200 AH



25.6V
12AH - 200 AH



51.2V
100AH & 200 AH

APPLICATION



SOLAR SYSTEMS



E-BIKE &
E-RICKSHAW



INVERTERS & UPS



ESS &
ENERGY STORAGE



INDUSTRIAL &
AUTOMATION



9330174170



info@anshsolar.in



www.anshsolar.in

Note : You are also informed that PAN and GSTIN are mandatory for Udyam Registration from 01.04.2021. You are advised to apply for PAN and GSTIN immediately and update the same on this website by 31.03.2021, to avoid suspension of Udyam Registration



TYPE OF ENTERPRISE	MICRO	MANUFACTURING			
UDYAM REGISTRATION NUMBER	UDYAM-WB-14-0000557				
NAME OF ENTERPRISE	ANSH SOLAR				
NAME OF UNITS					
OFFICAL ADDRESS OF ENTERPRISE	Flat/Door/Block No.	BC 257	Name of Premises/ Building	BC 257	
	Village/Town	KOLKATA	Block	BC	
	Road/Street/Lane	SAMARPALLY KRISHNAPUR	City	KOLKATA	
	State	WEST BENGAL	District	NORTH 24 PRAGANAS , Pin 700102	
	Mobile	8478813982	Email:	krishnendu@anshsolar.in	
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	06/07/2020				
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	06/07/2020				
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
	1	35 - Electricity, gas, steam and air conditioning supply	3510 - Electric power generation, transmission and distribution	35105 - Electric power generation using solar energy	Manufacturi
DATE OF UDYAM REGISTRATION	05/08/2020				

Disclaimer: This is computer generated statement, no signature required.
Printed form <https://udyamregistration.gov.in>

For any assistance, you may contact:

1. DIC N. 24- PRAGANAS
2. MSME-DI KOLKATA

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Ministry of

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MSME

CERTIFICATE OF COMPLIANCE

We hereby declare that the Technical file of Product Complied with the Requirement of Directives
low voltage directive 2014/35/EU

Manufacturer

Company Name: **ANSH SOLAR**

Address: BC- 257, SAMAR PALLY, KRISHNAPUR, KOLKATA, NORTH
24 PARGANAS, WEST BENGAL - 700102 INDIA

Products: SOLAR STREET LIGHT, LITHIUM BATTERY PACKS, SOLAR
INVERTER, SOLAR POWER GENERATING SYSTEMS,
SOLAR MODULE AND SOLAR PUMPING SYSTEMS

Applicable Standards: Machine Directive 2006/42/EC of Standard Requirements. The certification body has performed an audit of the above product quality system covering the Design, manufacture and final inspection of certified product. The quality system has been assessed, approved and is subject to continuous surveillance according Directive & Machine Directive 2006/42/EC and Directive – 2014/68/EU.

This Certificate Issued Under the Following Conditions:

1. It applies only to the quality system maintained in the manufacture of above reverenced models and it does not substitute the design or type examination procedures, if requested
2. The certificate remains valid until the manufacturing conditions or the quality system are 75/changed
3. The certificate validity is conditioned by positive results of surveillance audits
4. After fulfilling relevant EEC legislation, the manufacturer shall affix to each device, of the reverenced models The CE mark as shown above can be used under the responsibility of the manufacturer after completion of an EEC Declaration of conformity and compliance with all relevant EEC Directives. The statement is based on a single evaluation of one sample of above mentioned product.
5. It does not imply an assessment of the whole production.

Date of Certification: 15-03-2024

2nd Surveillance Due: 15-02-2026

1st Surveillance Due: 15-02-2025

Certificate Expiry: 14-03-2027

(Subject To the Company Maintaining
Its System To The Required Standard)

Certificate Number: QRS/24CE127M

Validity of This Certificate Can Be Verified at www.qrscerts.com




Authorized Signatory

QRS CERTIFICATIONS SYSTEM INC.

Validity of This Certificate Is Successful Annual Surveillance Audit To Be Done.

The Certificate is The Property of QRS Certifications System and shall be returned immediately on request Certifications System. Is accreditation by UK LAF Limited (www.uklaf.org.uk)

Suite 34, 79-68 Hatton Garden London WC 1B 5AA, (U.K) Company Reg.No. 124891552

Email: - qrscertifications@gmail.com, Website: - www.qrscerts.com

ISO 9001:2015



Certificate of Registration

This Is To Certify That
Quality Management System
Of

ANSH SOLAR

BC- 257, SAMAR PALLY, KRISHNAPUR, KOLKATA, NORTH 24
PARGANAS, WEST BENGAL - 700102 INDIA

Has been Assessed and Certified by QRS Certifications System Inc. Services
As Meeting the Requirement of:

ISO 9001:2015
(Quality Management System)

For The Following Scope of Activities:

“MANUFACTURER OF SOLAR STREET LIGHT, LITHIUM BATTERY PACKS,
SOLAR INVERTER, SOLAR POWER GENERATING SYSTEMS, SOLAR
MODULE AND SOLAR PUMPING SYSTEMS”

Date of Certification: 15-03-2024

2nd Surveillance Due: 15-02-2026

1st Surveillance Due: 15-02-2025

Certificate Expiry: 14-03-2027

(Subject To the Company Maintaining
Its System To The Required Standard)

Certificate Number: QRS/24QM129M

Validity of This Certificate can be verified at www.qrscerts.com



Anil Sinha
Authorized Signatory

QRS CERTIFICATIONS SYSTEM INC.

Validity of This Certificate Is Successful Annual Surveillance Audit To Be Done.

The Certificate is The Property of QRS Certifications System and shall be returned immediately on
Request Certifications System. Is accreditation by UK LAF Limited (www.uklaf.org.uk)

Suite 34, 79-68 Hatton Garden London WC 1B 5AA, (U.K), Company Reg. No. 124891552

Email: qrscertifications@gmail.com Website: www.qrscerts.com



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402

ई-मेल/E-mail: registration@bis.gov.in

वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2021-6389/R-51001708

Date:07-01-2022

Subject : Licence Document

Manufacturing Unit :	ANSH SOLAR BC 257, SAMARPALLY KRISHNAPUR, KOLKATA, NORTH 24 PRAGANAS WEST BENGAL,India-700102 Krishnendu@anshsolar.in 8478813982	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	SEALED SECONDARY CELLS/BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES FOR USE IN PORTABLE APPLICATIONS PART 2 LITHIUM SYSTEMS
Product Name:	Sealed Secondary Portable Li-Iron Phosphate Battery
IS NO :	IS 16046 (PART 2) : 2018 / IEC 62133-2 : 2017
Brand (As Declared by Manufacturer) :	AS BKC ANSH SOLAR
Model :	[Brand -> AS BKC ANSH SOLAR, Models -> AS/LFP/12A/02- 12.8V 12AH., AS/LFP/18A/03- 12.8V18AH., AS/LFP/24A/04- 12.8V 24AH., AS/LFP/30A/05- 12.8V 30AH., AS/LFP/6A/01 ? 12.8V 6AH.]
Factory Address :	BC 257, SAMARPALLY KRISHNAPUR, KOLKATA, NORTH 24 PRAGANAS WEST BENGAL,India-700102

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-51001708** which has been made operative from **07-01-2022** and is valid upto **06-01-2024** . The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Avik Datta)
Scientist-C
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.

Annex - 1

The guidelines for use of Standard Mark for Scheme-C are per 3(1) of BIS (Conformity Assessment) Regulations,2017 are given below:

- i) The monogram of the 'Standard Mark' consists of the pictorial representation, drawn in the exact style as indicated in the figure in the figure in Annexure I. Its photographic reductin and enlargement is permitted.
- ii)The 'Standard Mark' can be displayed in single colour or multi-colour as per the details given below. The colour scheme for the Standard Mark to be used in multi colour shall be use as indicated below.
- iii) The licensee shall diplay the 'Standard Mark' on the article and/or the packaging, as the case may be, in a manner so as to be easily visible. It shall be legible, indelible and non-remobable. Further, the durability of marking shall be as per the provisions of the relevant Indian Standard, wherever applicable. The diplay of IS number, Registration number and words shall not be less than Arial forn size 6.
- iv) Any device with a integrated display sceen may present the Standard Mark electronically (e-labelling) in lieu of a physical presentation on the product.

Technical drawing of a rectangular sign with rounded corners. The sign features a large stylized 'S' and the text 'R-12345678' at the bottom. The drawing includes numerous dimensions and labels for various parts of the sign.

Dimensions:

- Overall width: 240.49 mm
- Overall height: 175.48 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm
- Top-left corner radius: 27.03 mm
- Top-right corner radius: 27.03 mm
- Bottom-left corner radius: 27.03 mm
- Bottom-right corner radius: 27.03 mm

Labels:

- B1:** 240.49 mm
- B2:** 175.48 mm
- B3:** 66.26 mm
- B4:** 12.00 mm
- B5:** 8.24 mm
- H1:** 200.00 millimeters
- H2:** 100.00 mm
- H3:** 39.37 mm
- H4:** 21.69 mm
- H5:** 29.12 mm
- L1:** 91.00 millimeters
- L2:** 84.31 mm
- L3:** 40.47 mm
- L4:** 40.47 mm
- L5:** 3.36 mm
- D1:** 23.51 millimeters
- D2:** 23.53 millimeters
- D3:** 7.52 mm
- D4:** 19.16 mm
- D5:** 42.49 mm
- D6:** 81.06 mm

Figures:

- fig A:** Top-left corner detail
- fig B:** Bottom-right corner detail

Text:

- IS 16046
- R-12345678

H1	200
H2	100
H3	39.3
H4	21.6
H5	17.7
L1	91.0
L2	84.3
L3	25.2
L4	40.4
L5	3.36
D1	23.5
D2	23.5
D3	7.52
D4	19.6
D5	42.4
D6	8.57
B1	240.49
B2	175.48
B3	66.26
B4	12.00
B5	8.24

a) For printing purposes, colours shall be "Oriental Blue" and "Monopol Red" as per IS 1222:1992. 'Ink, duplicating for twin cylinder rotary machines (third revision)'

b) For sign board purposes, colours shall be "French Blue" (No.166) Red" (No.537) as per IS 5:1994 "Colours for ready mixed paints and enamels (fourth revision)".

The font style and size used is Arial-85 pt.

IS -----



R - XXXXXXXXX

For details information on BIS, consult the e-BIS Portal (www.manakonline.in).
Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery.



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5 Noida-201301
T +91 (120) 4516264-65 F +91 (120) 4750296
E info@urs-labs.com W www.urs-labs.com
CIN NO U21014UP1987PTC008956

TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/24-25/15500	DATE OF ISSUE:	28/02/2025
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NAME OF LABORATORY:	URS PRODUCTS AND TESTING PRIVATE LIMITED
ADDRESS OF LABORATORY:	A-29, Sector 5, Noida-201301, India
TESTING LOCATION:	A-29, Sector 5, Noida-201301, India

CUSTOMER NAME:	ANSH SOLAR
CUSTOMER ADDRESS:	BC 257, SAMARPALLY KRISHNAPUR, KOLKATA, NORTH 24 PRAGANAS, WEST BENGAL, India - 700102

TEST ITEM DESCRIPTION			
PRODUCT NAME:	12W Solar LED Street Light System		
DATE OF RECEIPT	19/02/2025	SAMPLE CONDITION:	Good & Functionally Okay
RECEIPT NUMBER	URS/LAB/SBCLS/24-25/FC68AB0E	NO. OF SAMPLE:	01 No's
TRADE MARK	Solar Module:  LED Street Light:  Battery Pack: 	SERIAL/ PART NUMBER:	PV Module Serial No.: 36CP2412SS1721 Battery Serial No: 12830LC24010001 Solar LED Street Light Serial No.: AS/1230/678124
MODEL	PV Module Model No. - SC36CP80W Battery Model No.- AS/LFP/30A/05 Solar LED Street Light Model No.- AS/12/D2D/MY24		
NAME OF MANUFACTURER	ANSH SOLAR		
ADDRESS OF MANUFACTURER	BC 257, SAMARPALLY KRISHNAPUR, KOLKATA, NORTH 24 PRAGANAS, WEST BENGAL, India - 700102		

TECHNICAL DATA			
STANDARD TEST METHOD / TEST PROTOCOL	As Per MNRE Specification for 12W LED SOLAR STREET LIGHTING SYSTEM.		
START DATE OF TESTING	19/02/2025	DATE OF COMPLETION	28/02/2025
ENVIRONMENTAL CONDITIONS	Temperature: 15-35 °C & 45-75 % RH		

CONCLUSION	
TEST RESULT	The test result conforms to the requirement of the standard results mentioned in this test report.

REMARK	SOLAR LED STREET LIGHT manufacturer: -. ANSH SOLAR RECHARGABLE LITHIUM PHOSPHATE BATTERY manufacturer: - ANSH SOLAR PV MODULE manufacturer: - Soltech Solar Evolution
--------	---

TESTED BY

Bhaskar Lohani
Analyst



AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar
Dy. General Manager-Automotive

Note:

1. This test report is valid only for the sample(s) tested in our laboratory.
2. The test report is not permitted to be duplicated/reproduced in part or in extract in any circumstances.
3. URS lab is not responsible for authenticity of photocopied or reproduced test report.
4. The test results reported in this report are valid at the time of and under the stated conditions of measurements.
5. The remnant (Tested Samples) shall be destroyed after 07 days from the date of testing unless specified otherwise in writing.
6. Any correction/erasure shall invalidate the test report.
7. This test report pertains to the test(s) carried out as requested by the customer.
8. This test report shall not be utilized for any legal purpose and shall not be produced in the court of law & no responsibility would be attached to URS Lab.
9. URS reports, in general, are formally released in soft copy through reports@urs-labs.com, client portal, unless client will specifically request with sign & stamped letter with the intent to issue test reports in hard copy form. URS will not acknowledge for the reports said to be released through other means such as what's app. Test Reports for specific schemes such as BIS CRS/LRS schemes, are issued as per specific scheme requirements.
10. Standard Test Method / Test Protocol specified in this Test Report is used as reference only



URS PRODUCTS AND TESTING PRIVATE LIMITED

A-29, Sector-5 Noida-201301
T +91 (120) 4516264-65 F +91 (120) 4750296
E info@urs-labs.com W www.urs-labs.com
CIN NO U21014UP1987PTC008956

TEST REPORT NO.: URS/LAB/02/RID/24-25/15500

CUSTOMER NAME: ANSH SOLAR

DATE OF ISSUE: 28/02/2025

CUSTOMER CITY: WEST BENGAL

S. No.	Test Description	Requirement as per Specification	ERDA Observations	Remarks
1	PV MODULE I. a) Name of Manufacturer or Company Logo b) Model No. c) Serial No. d) Year of manufacturer. II Module Wattage at STC III. Type of Module iv. Module efficiency	Should be provided Should be provided Should be provided Should be provided Minimum 75Wp ----- Minimum 14.86%	Soltech Solar Evolution  SC36CP80W 36CP2412SS172 1 2024 78.01 W Multi Crystalline 19.6 %	Complied
2.	BATTERY I. Make and type of Battery II. Voltage III. Battery capacity	Should be provided 12.8V DC Minimum 30Ah	ANSH SOLAR, Lithium Ferro Phosphate Battery (LiFePo4) 12.8V DC 30.12 Ah	Complied

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CIN NO U21014UP1987PTC008956

TEST REPORT NO.: URS/LAB/02/RID/24-25/15500

CUSTOMER NAME: ANSH SOLAR

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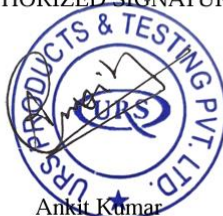
3.	LIGHT SOURCE			
	I. Make	Should be provided	ANSH SOLAR	
	II. Model No.	Should be provided	AS/12/D2D/MY24	
	III. W-LED Luminaire should be dispersed beam, smoothing to eyes with the use of proper optics and diffuser	Provided	Provided	
	IV. Light output	Light source should be constant throughout the duty cycle and W-LED Should not emit ultraviolet light.	Provided W-LEDs not emitted ultraviolet light	
	V. The temperature of heat sink should not increase more than 20°C above ambient temperature during the dust to down operation.	<20°C	12.9°C	Complied
	VI. Light output (Peak) in Lux	Minimum 24 Lux when measured form 4-meter height (at High illumination level) and Minimum 12 Lux at lower illumination level.	At high illumination level Lux measured: 25.0 Lux. At lower illumination level Lux measured: 14 lx.	
	VII. PCB	PCB containing the electronics should be capable of solder free installation and replacement	Provided	
4.	Illuminance: Light Uniformity Ratio (Emin/Eavg) u0	0.4	0.477	Complied

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5.	ELECTRONICS I. Type of charge controller II. MPPT Efficiency III. No load current ELECTRONICS PROTECTIONS I. Protection is to be incorporated under "No Load" condition e.g. when the the lamp is removed and system is Switched On. II. The system should have protection against battery overcharge and deep Discharge conditions. III. The system should have protection against short circuit conditions. IV. Protection for reverse flow of current through the PV Module should be provided. V. Battery reverse polarity Protection. VI. Load reconnect voltage VII. Electronics should operate at an appropriate voltage suitable for proper charging of the battery. VIII. The PV module itself should be used to sense the ambient light level for switching ON and OFF the lamp.	MPPT Type >90% Less than 20 mA Should be provided Should be provided Should be provided Should be provided Should be provided Should be provided Should be provided Should be provided	MPPT Type 91.93 % 14.53 mA Provided Provided Provided Provided Provided 12.97 V Provided Provided	Complied
6.	INDICATORS The System should have two indicators, Green and Red.	GREEN Indicator: for Charging under process, it should stop glowing when the battery is full charged. RED Indicator: for "Load cut off" condition.	Provided	Complied
7.	DUTY CYCLE	Dust to down: First 4 Hours full light (Min. 24 Lux), rest of the time at lower light (50o/o, Min. 12 Lux) Level.	Qualify	Complied
8.	AUTONOMY	Dust to down: First 4 Hours full light (Min. 24 Lux), rest of the time at lower light (50%, Min. 12 Lux) Level.	Qualify	Complied

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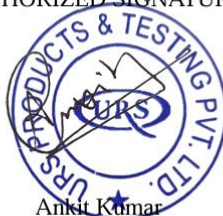
9.	Total luminous flux measurement, Luminous Intensity Distribution, Luminous efficacy and Color characteristics (As per Clause No.9.0, 10.0, 11.0 & 12.0 of IES LM-79-08)			Complied				
	Test voltage	12.8V DC	12.8V DC					
	Supply current	-----	0.7703 A					
	Total power	-----	12.32 W					
	Total luminous flux	≥ 1500 lm	1726 lm					
	Luminous efficacy (lm/w)	≥125lm/W	140.05 lm/w					
	Chromaticity Co-ordinates	-----	<table><tr><td>x</td><td>y</td></tr><tr><td>0.3291</td><td>0.3495</td></tr></table>		x	y	0.3291	0.3495
	x	y						
	0.3291	0.3495						
	Correlated color temperature (CCT)	5500K to 6500K	5642 K					
	Color rendering index (CRI)	≥70	72.72					
	Luminous Intensity Distribution	----	As per Annexure I					
	Polar Diagram & Illuminance and intensity diagram	-----	As per Annexure II					
i) Downward light output ratio:	-----	99.0 %						
ii) Upward light output ratio:		1.0 %						
CIE 1931 Color Diagram, Spectral Distribution and Isocandela Diagram	-----	As per Annexure III						

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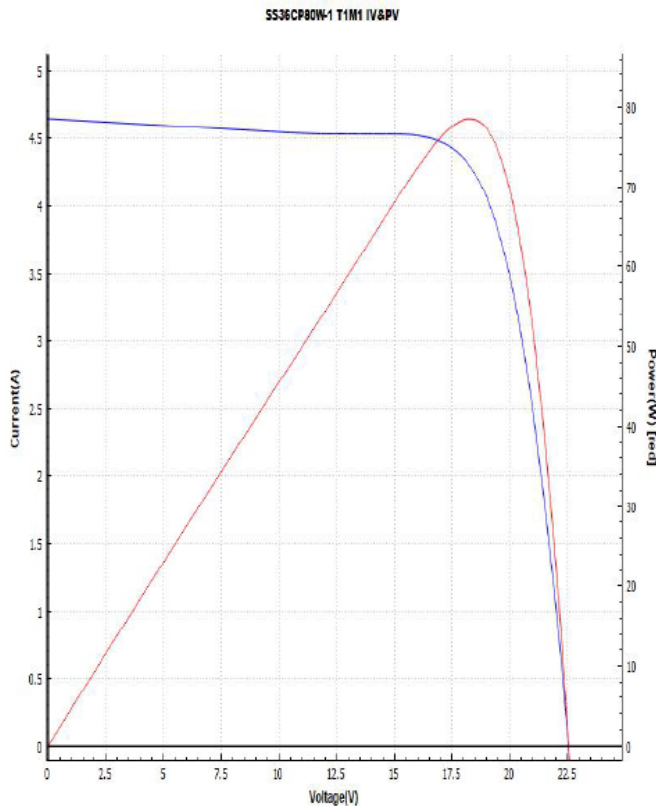
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ANNEXURE -A



Test Report No	URS/LAB/02/RID/24-25/15500
Title	URS PRODUCTS AND TESTING PRIVATE LIMITED
Comment	Passes the test
Operator	URS LAB
Module Type	Multi Crystalline
Cell Area	156 cm ²
Module Area	2.5833 m ²
Date & Time	2025/02/24 15:42:56
Measured Temperature	24.0 °C
Corrected Temperature	25.0 °C
Irr Measured	999.99 W/m ²
Irr Corrected	1000.00 W/m ²
Voc	22.243 V
Isc	4.04 A
Pmax	78.01 W
Vpm	20.01 V
Ipm	4.02 A
FF	74.02 %
Eff	19.6%
Rs	1.133 Ω
Rsh	2284.00 Ω
Sweep Dealy	30
Sweep Direction	Isc-Voc
IV Points	400

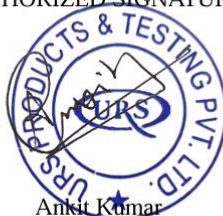
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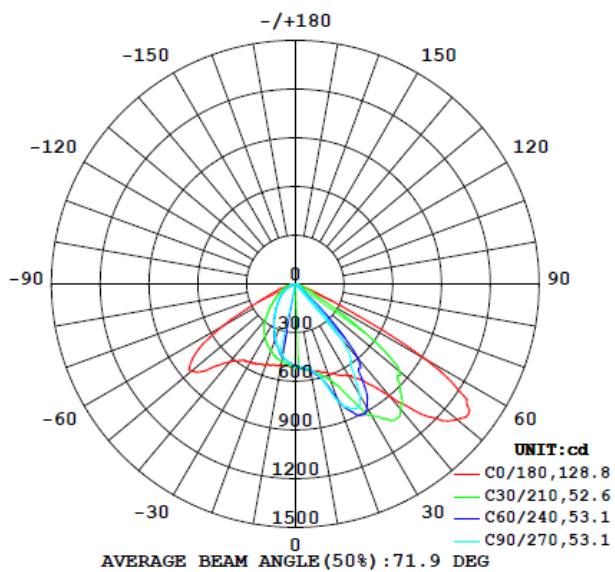
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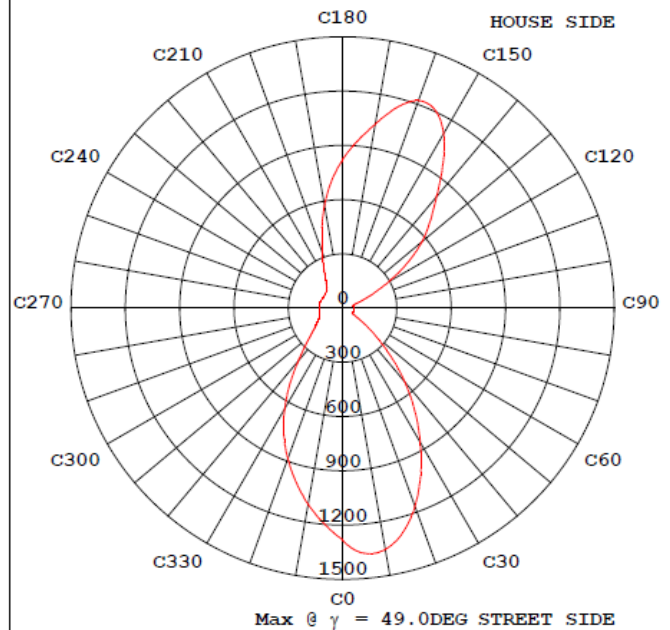
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ANNEXURE -B

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



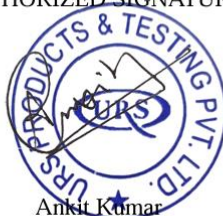
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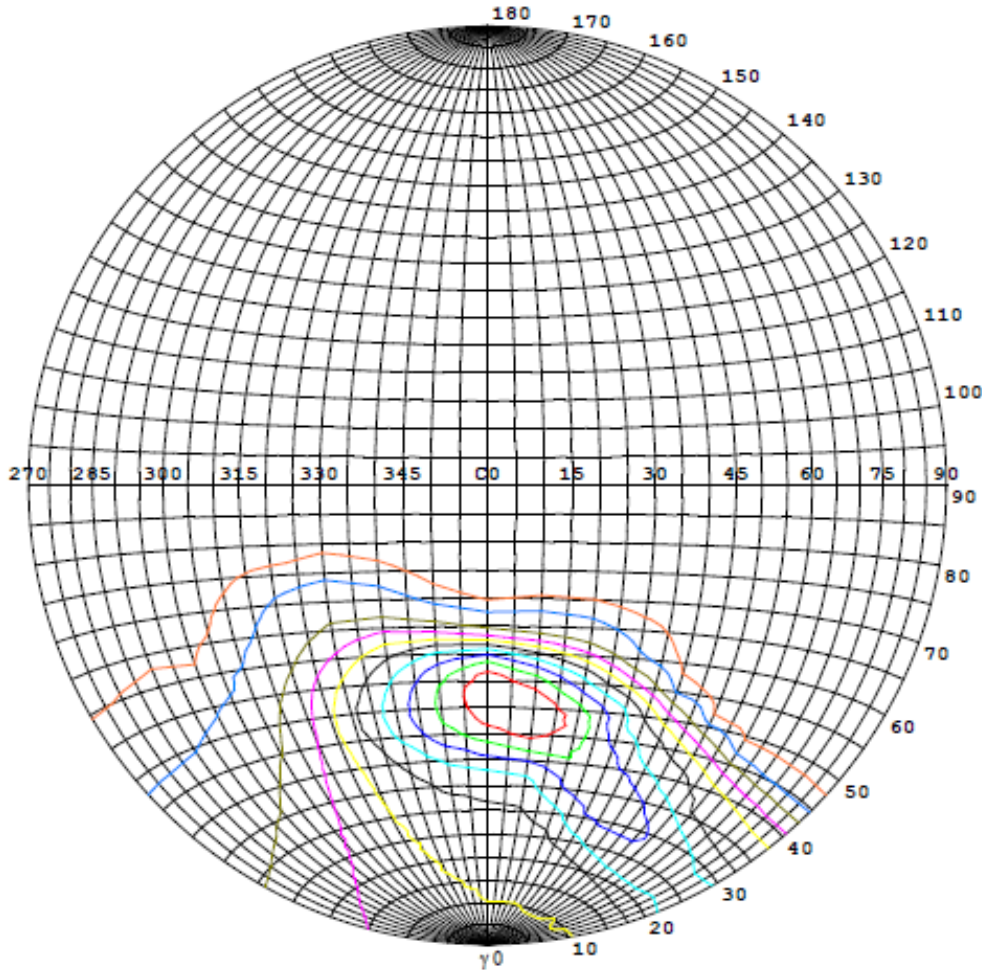


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Classification:

IES:Type III - Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:45.75cd/klm
Max.At90:0.0277cd/klm
Max.80-90:45.75cd/klm

ISOCANDELA DIAGRAM

UNIT	cd
I _{max} =100%	1354
90%	1219
80%	1083
70%	948
60%	812
50%	677
40%	542
30%	406
20%	271
10%	135
5%	68

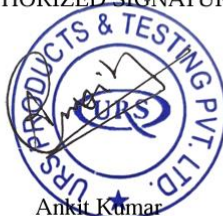
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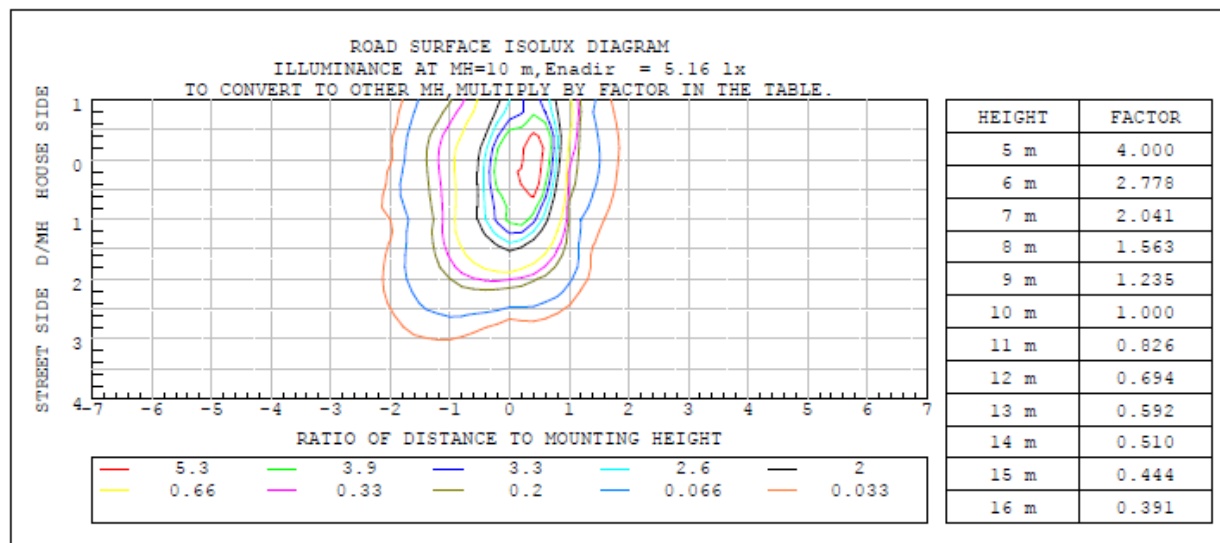
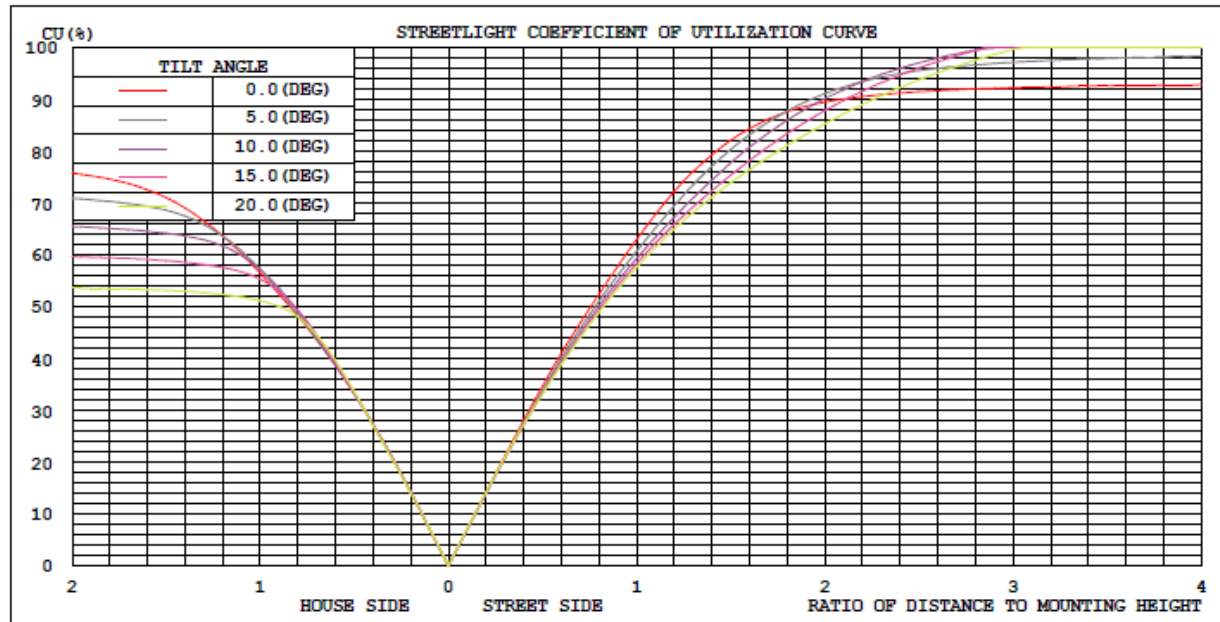
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COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



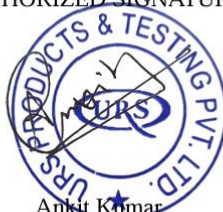
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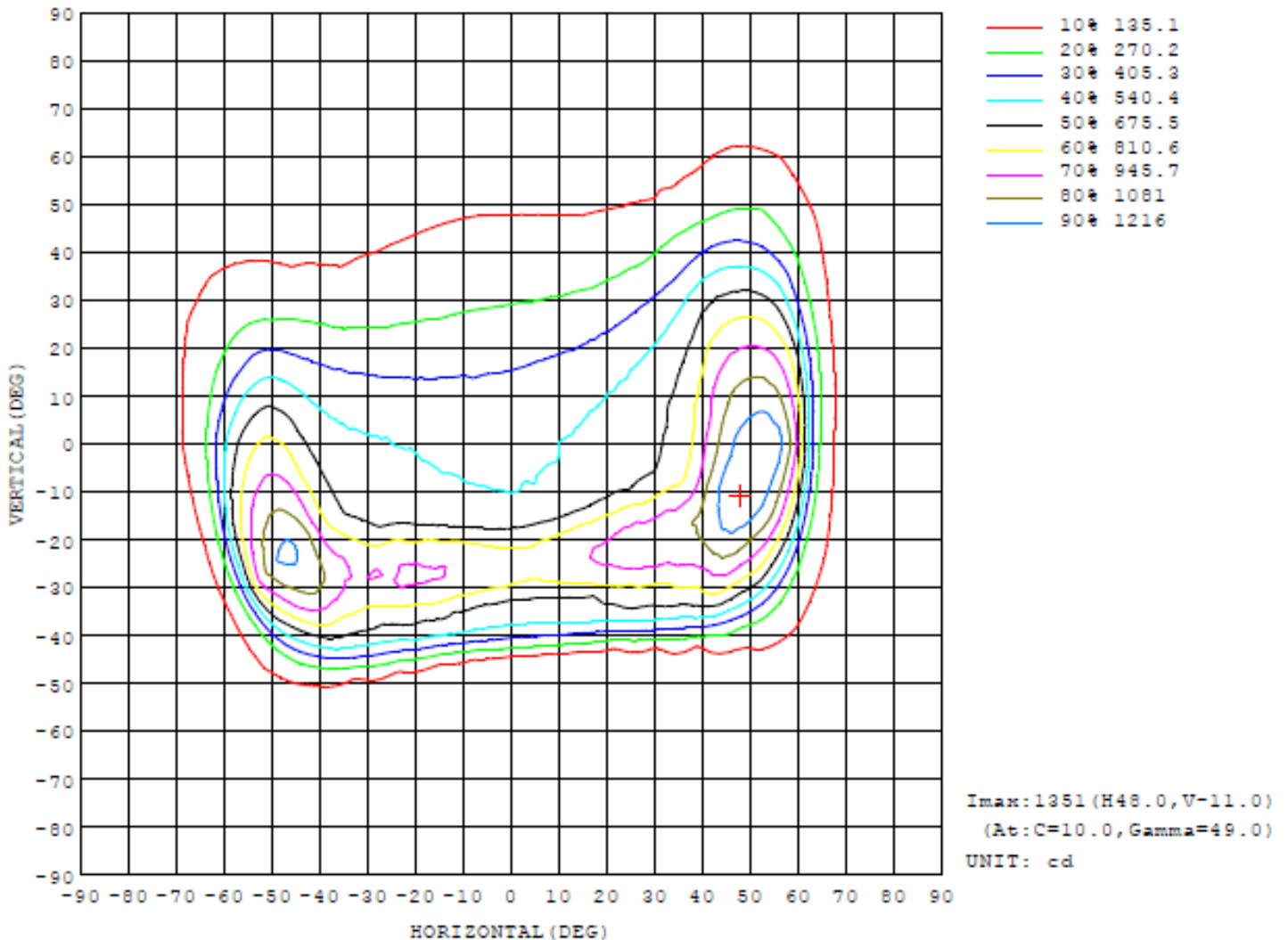


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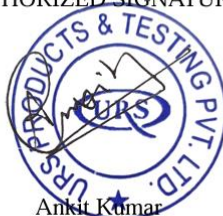
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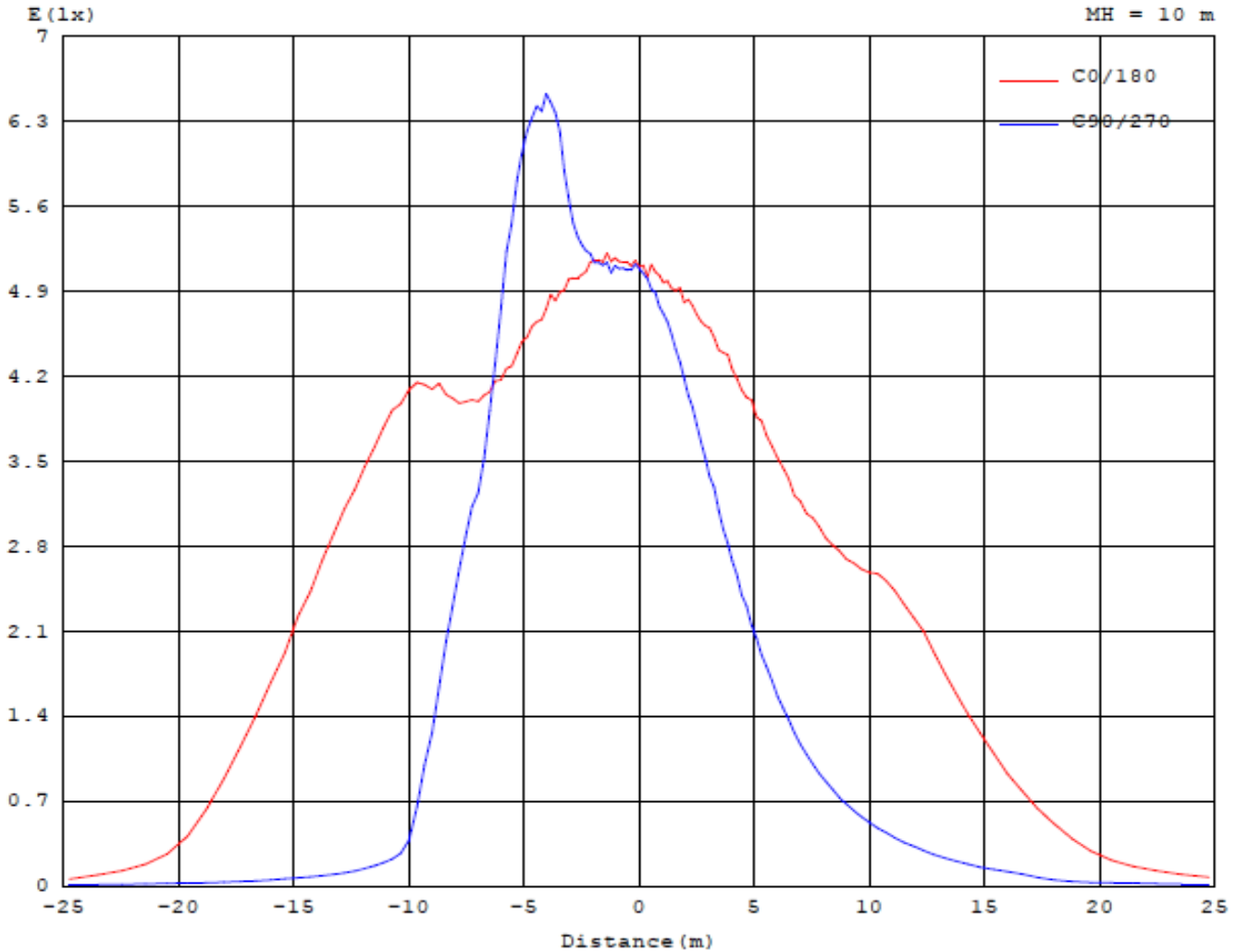
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Planar Illuminance Curve

MH = 10 m



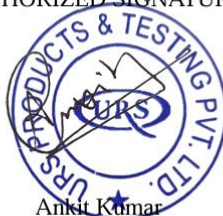
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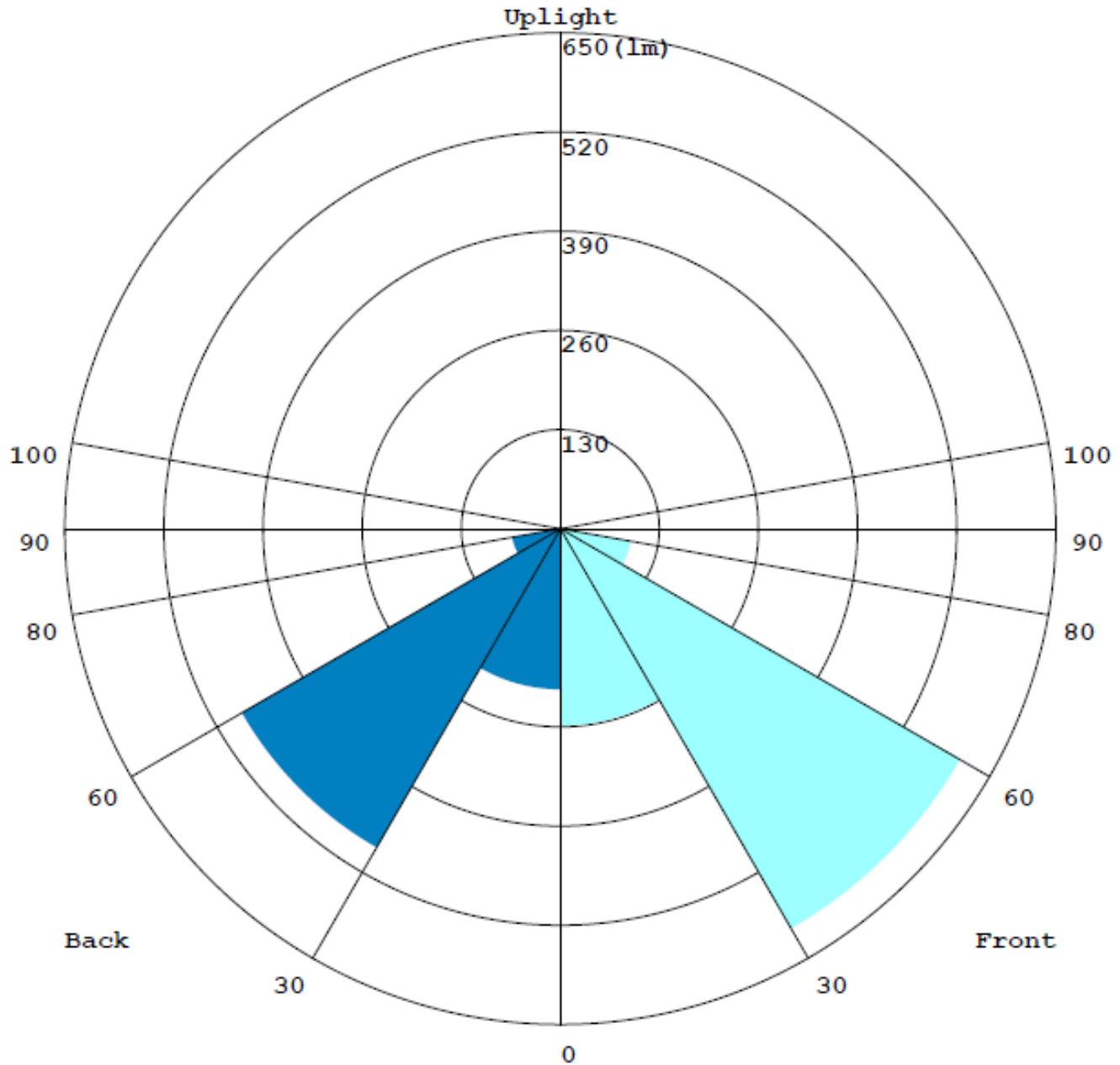
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LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



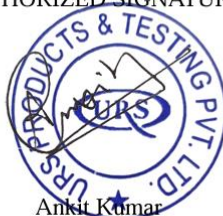
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IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	257.85	14.9
FM - Front-Medium(30-60)	605.05	35.1
FH - Front-High(60-80)	93.688	5.4
FVH - Front-Very High(80-90)	4.9656	0.3
Total Forward Light	963.18	55.8

BL - Back-Low(0-30)	210.44	12.2
BM - Back-Medium(30-60)	482.33	27.9
BH - Back-High(60-80)	64.221	3.7
BVH - Back-Very High(80-90)	4.9537	0.3
Total Back Light	762.98	44.2

UL - Uplight-Low(90-100)	1.0198	0.1
UH - Uplight-High(100-180)	1.6376	0.1
Total Up Light	2.6575	0.2

BUG(Back,Up,Glare) Rating	B1-U1-G0
---------------------------	----------

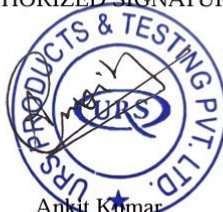
Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	761.95	1.0324	762.98
Street Side	961.55	1.625	963.18

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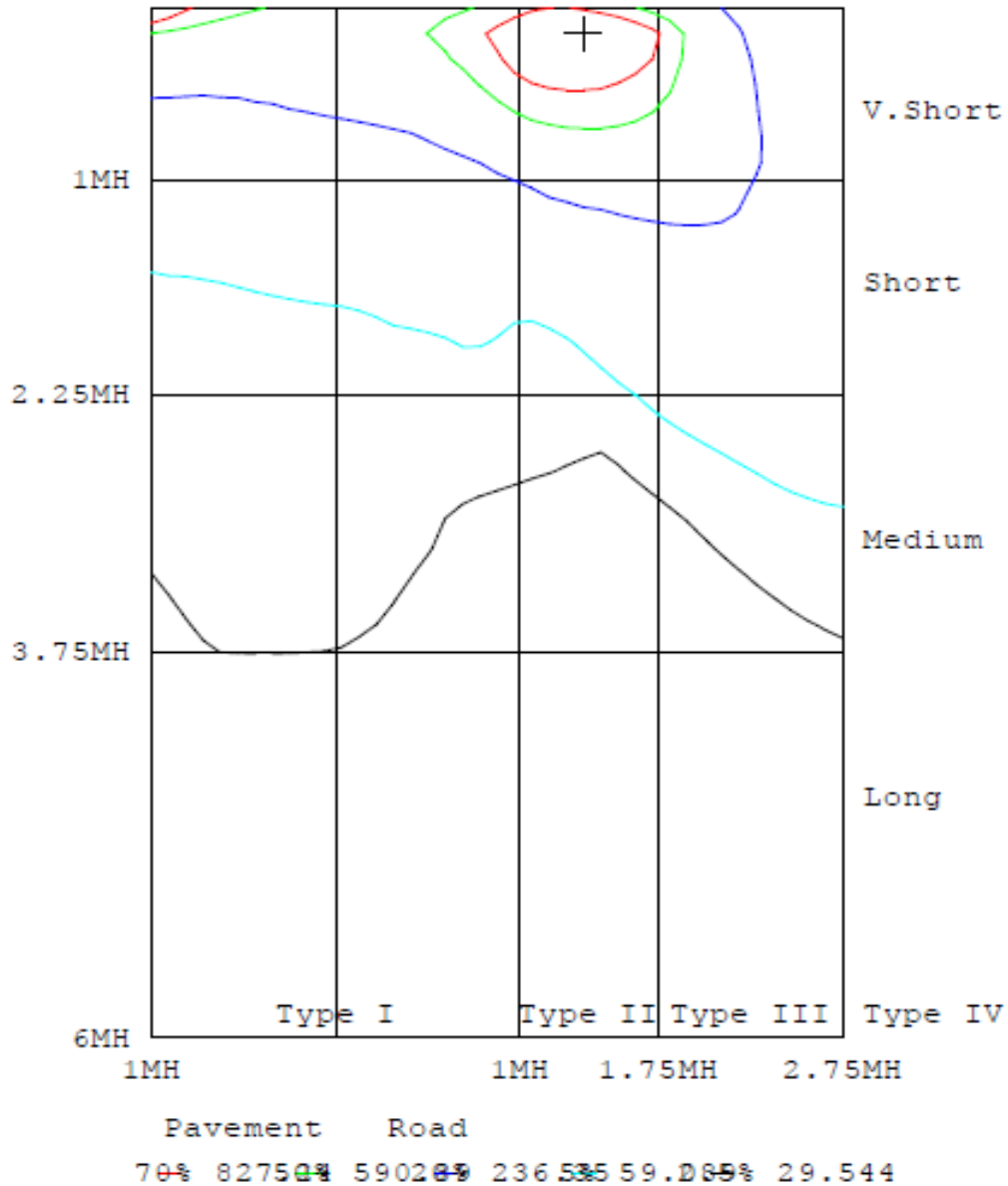
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ROAD SURFACE ISOCANDELA DIAGRAM



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Table--1

UNIT: cd

C (DEG) y (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	510	513	517	515	512	514	506	508	509	509	513	512	519	514	516	520	506	511	510
5	521	526	525	529	521	525	518	523	521	515	523	522	522	519	522	516	505	510	509
10	541	539	537	545	542	546	541	545	540	538	540	538	539	536	529	527	515	515	516
15	556	568	565	581	580	593	597	611	602	594	592	589	573	563	559	548	535	530	517
20	582	589	598	629	661	724	749	789	780	768	757	723	672	618	584	569	551	549	530
25	620	629	659	757	873	893	890	870	857	851	866	877	868	780	663	608	576	564	541
30	657	669	757	929	982	973	880	823	790	805	836	903	952	918	811	646	598	580	558
35	727	754	936	1027	1002	884	714	614	590	590	634	760	898	972	905	740	636	620	577
40	901	952	1036	1009	848	714	602	489	441	449	502	615	707	863	947	922	756	697	626
45	1158	1262	1148	910	727	515	290	157	107	108	172	322	560	684	880	1044	1037	902	731
50	1303	1339	1119	834	476	164	63.5	60.1	57.1	54.9	53.8	66.7	230	522	791	1115	1263	1037	833
55	1287	1156	859	515	126	50.0	42.8	41.9	41.8	41.4	41.4	44.2	57.2	209	553	858	1146	966	750
60	923	705	452	166	56.8	36.9	34.5	31.5	31.0	31.2	34.1	35.9	39.5	70.6	202	408	628	623	509
65	243	212	170	95.9	36.1	29.6	26.4	25.9	26.9	26.9	27.9	28.3	29.8	40.5	93.9	133	131	167	218
70	60.8	79.5	68.4	37.7	26.0	22.7	21.7	21.6	21.3	22.8	24.5	22.5	23.2	25.9	40.2	66.2	53.3	67.9	117
75	25.3	26.9	26.7	19.2	19.8	18.8	17.9	15.5	14.7	16.9	20.5	19.5	18.2	16.5	23.7	35.7	31.8	36.5	65.4
80	16.7	19.3	15.8	11.1	10.6	11.7	10.9	8.92	7.85	10.4	12.2	11.4	11.0	11.6	14.6	20.3	17.8	17.6	27.2
85	11.5	10.2	6.80	5.11	4.04	3.47	2.92	2.86	3.44	3.84	11.2	4.08	4.72	6.22	9.23	12.3	11.8	10.4	14.2
90	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
100	3.43	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	4.65	7.65	8.19
105	4.35	2.32	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.83	2.86	3.32
110	2.65	1.62	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.30	0.51	0.81
115	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TESTED BY

Bhashkar Lohani



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar

Ankit Kumar
Dy. General Manager-Automotive



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E info@urs-labs.com W www.urs-labs.com
CIN NO U21014UP1987PTC008956

TEST REPORT NO.: URS/LAB/02/RID/24-25/15500
CUSTOMER NAME: ANSH SOLAR

DATE OF ISSUE: 28/02/2025
CUSTOMER CITY: WEST BENGAL

Table--2

UNIT: cd

C (DEG) y (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	513	517	515	512	514	506	508	509	509	513	512	519	514	516	520	506	511		
5	507	498	495	493	495	484	493	492	483	497	493	499	503	507	510	510	518		
10	501	490	483	472	467	459	456	454	452	464	469	480	491	510	512	517	533		
15	501	478	470	446	429	411	409	404	407	416	435	453	473	497	515	533	546		
20	507	467	438	412	384	368	361	355	355	369	389	414	443	483	520	547	571		
25	499	458	411	366	338	316	307	304	310	317	344	374	419	473	528	570	606		
30	503	436	378	319	286	264	261	256	261	270	294	329	388	460	537	605	641		
35	512	423	337	268	236	215	211	212	213	222	243	283	351	446	554	638	707		
40	522	397	286	215	191	176	177	176	178	185	198	237	308	429	580	711	831		
45	559	374	236	171	152	145	148	150	149	153	163	196	268	413	616	839	1032		
50	583	324	186	132	121	118	120	123	124	125	131	156	223	377	643	875	1109		
55	500	264	146	100	90.5	88.5	94.0	98.2	96.6	95.8	103	126	163	326	569	818	1057		
60	331	189	109	76.6	68.0	64.2	56.7	52.3	58.9	71.4	79.7	87.5	140	248	437	651	841		
65	204	140	86.0	58.7	49.6	33.6	33.1	36.2	34.2	35.2	59.1	55.3	102	188	296	366	323		
70	133	102	66.5	41.5	34.4	26.3	32.6	36.3	34.4	30.1	33.9	32.1	80.0	146	200	184	112		
75	71.4	47.7	39.6	28.8	23.8	20.2	25.9	30.2	29.7	26.5	19.3	18.5	54.8	93.8	116	90.2	46.3		
80	27.1	21.4	20.7	20.7	18.7	15.0	16.8	19.3	18.7	13.6	8.69	11.1	23.6	33.7	45.7	40.9	22.6		
85	16.1	14.2	13.2	13.1	13.0	9.91	8.87	13.4	12.1	3.82	6.00	8.65	11.9	15.2	17.1	18.6	12.0		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	1.33	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.75	0.29	0.14	0.03	0.02		
100	6.06	4.32	2.44	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	3.67	7.05	8.57	8.59	8.26		
105	2.52	1.51	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	4.58	7.03	7.36	6.32		
110	0.81	0.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	3.05	3.93	3.34		
115	0.30	0.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	1.02	1.21	0.61		
120	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.20		
125	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

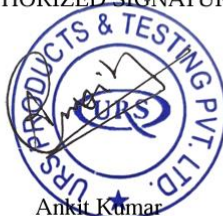
TESTED BY

Bhashkar Lohani



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar

Ankit Kumar
Dy. General Manager-Automotive



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CIN NO U21014UP1987PTC008956

TEST REPORT NO.: URS/LAB/02/RID/24-25/15500
CUSTOMER NAME: ANSH SOLAR

DATE OF ISSUE: 28/02/2025
CUSTOMER CITY: WEST BENGAL

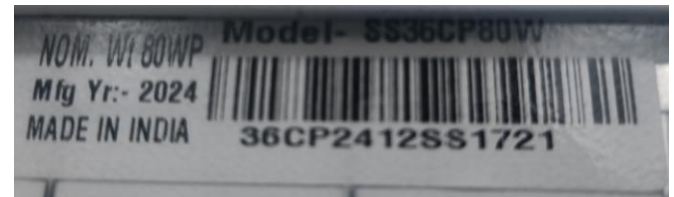
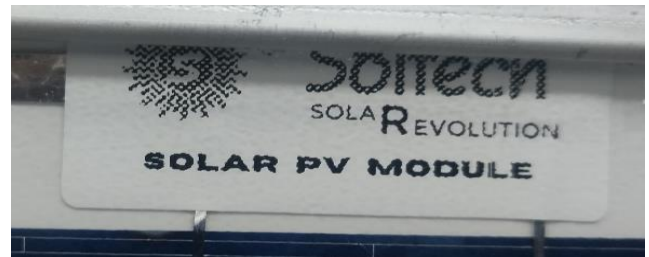
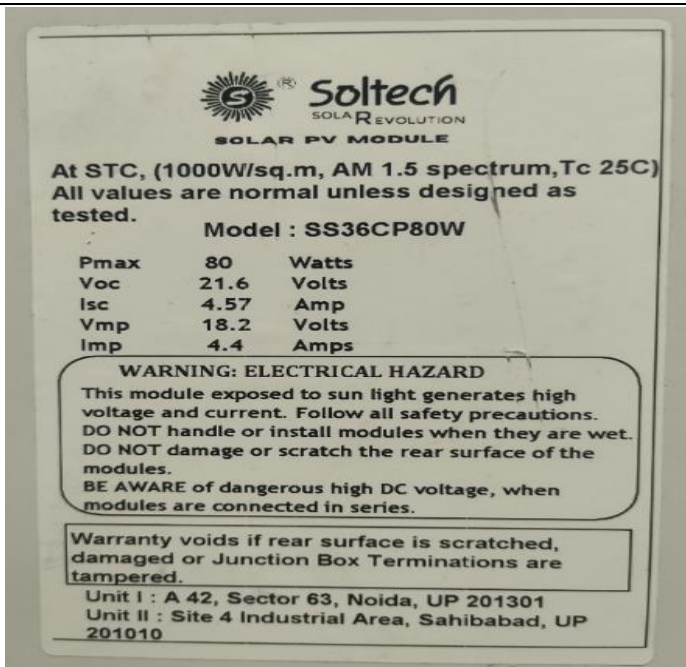
ANNEXURE -B



PV MODULE FRONT VIEW



PV MODULE REAR VIEW



MODEL NO., SERIAL NO. AND ELECTRICAL MARKING OF PV MODULE

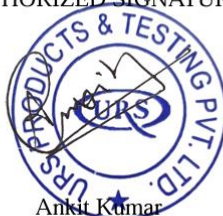
TESTED BY

Bhashkar Lohani



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar

Ankit Kumar
Dy. General Manager-Automotive



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CUSTOMER CITY: WEST BENGAL



Battery With Marking

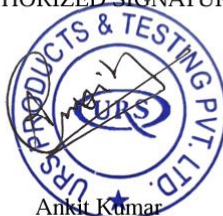
TESTED BY

Bhashkar Lohani



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar

Ankit Kumar
Dy. General Manager-Automotive



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CUSTOMER NAME: ANSH SOLAR

DATE OF ISSUE: 28/02/2025

CUSTOMER CITY: WEST BENGAL

ANNEXURE -C



Soler LED street Light



Complete System

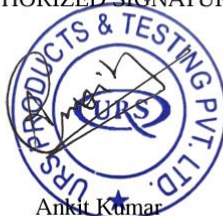
TESTED BY

Bhashkar Lohani



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar

Ankit Kumar
Dy. General Manager-Automotive



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CUSTOMER NAME: ANSH SOLAR

DATE OF ISSUE: 28/02/2025
CUSTOMER CITY: WEST BENGAL

BIS CERTIFICATE OF LAB

  भारतीय मानक ब्यूरो
उत्प्रेषण चक्र, सत्य एवं कार्यात्मक विज्ञान संशोधन
मानक आयोग
BUREAU OF INDIAN STANDARDS
Ministry of Consumer Affairs, Food & Public Distribution
Government of India

Our Ref: LRMD/LRS/OSL-8148986 28-12-2023

M/s URS PRODUCTS AND TESTING PVT. LTD.
A-29, Sector 5, Noida
Uttar Pradesh, 201301

Subject: Inclusion of 04 ISs in the existing scope of recognition.

Dear Sir,

It is informed that the Competent Authority has decided to include IS/IEC 61730(Part-1):2004, IS/IEC 61730(Part-2):2004, IS 14286:2019 and IS 14286(Part-1):2019.

In the existing scope of your laboratory for remaining period of recognition w. e. f. 20-12-2023. The inclusion of the ISs has been processed based on your undertaking dated 13.12.2023.

Thanking you,

Yours faithfully,

(P. B. Bhaskar)
Scientist - B / Assistant Director
Laboratory Recognition & Management Department

भारत मानक ब्यूरो, नई दिल्ली 110002
फ़ोन: 23230131, 23233375, 23239402
ई-मेल: info@bis.gov.in वेबसाइट: www.bis.gov.in

Marak Bhawan, 5 Bahadur Shah Zafar Marg, New Delhi-110002
फ़ोन: 23230131, 23233375, 23239402
ई-मेल: info@bis.gov.in वेबसाइट: www.bis.gov.in

For detailed information on BIS, consult the e-BIS Portal (www.manakonline.in) / Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery

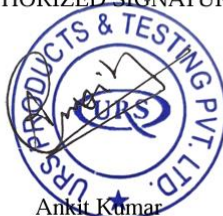
TESTED BY





Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY



Ankit Kumar
Dy. General Manager-Automotive



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BIS CERTIFICATE OF LAB

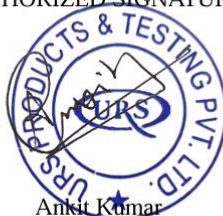
DATA ON OUTSIDE RECOGNISED LABORATORIES			
OSL CODE	S168906		
NAME	URS Products and Testing Pvt Ltd		
ADDRESS	A-29, Sector-5, Noida-201301 Uttar Pradesh		
IS Number	Product		T
1 IS 4245 : 2002	DOMESTIC GAS STOVES FOR USE WITH LIQUEFIED PETROLEUM GASES		
2 IS 10322(Part 5/Sec 2): 2012	RECESSED LUMINAIRES		
3 IS 10322(Part 5/Sec 3): 2012	LUMINAIRE FOR ROAD AND STREET LIGHTING		
4 IS 10322(Part 5/Sec 6): 2012	FLOOD LIGHTS		
5 IS 14286 : 2010	Crystalline silicon terrestrial photovoltaic modules-Design qualification and type approval: Solar Photovoltaic energy system		
6 IS 14286(Part 1/Sec 1): 2019	Terrestrial photovoltaic modules-Design qualification & type approval: Test requirements: Sec 1: spec requirement for testing of crystalline silicon photovoltaic modules		
7 IS 15558 : 2005	LPG water heaters		
8 IS 61730(Part 1): 2004	Photovoltaic Module safety qualification Part-1-Requirements for construction		
9 IS 61730(Part 2): 2004	Photovoltaic Module Safety Qualification Part 2 Requirements for Testing		

TESTED BY



Bhashkar Lohani
Analyst

AUTHORIZED SIGNATURE



Ankit Kumar
Dy. General Manager-Automotive

ISSUED BY

Ankit Kumar
Dy. General Manager-Automotive



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

TEST REPORT/CALIBRATION CERTIFICATE

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MICRO, SMALL & MEDIUM
ENTERPRISES-TESTING CENTRE

(A BIS RECOGNISED AND NABL ACCREDITED LABORATORY)

१११ व ११२ बी. टी. रोड, कोलकाता - ७०० १०८
111 & 112, B. T. ROAD, KOLKATA-700 108

दूरभाष / Dial : 2577-0686 / 2482 / 4055

फैक्स / Fax : (91) (033) 2577-1353

ई-मेल / E-mail : dctc-er@dcmsme.gov.in

वेब / Web : www.rtcer.nic.in

संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A2

Page 1 of 3

Test Report No. 2112B-2025-2026

Date : 25.07.2025

ULR- TC539025200000037F



TC-5390

Issued To

M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Ref. : Customer's Test Request Letter No. NIL(Via Mail) dated- 08.06.2025.

1. a) Description of Test Item : Sample stated as Solar FLOOD LIGHT Enclosures , IP 65
- b) Identification of Test Item / Customer Identification, if any : A) Printed on the sample thus:
POWERED BY OSRAM/PHILIPS
MAKE IN INDIA
B) Paper Pest on the sample thus:
ANSH SOLAR
DC FLOOD LIGHT
50 WATT
MADE ION INDIA
2. Condition of the Sample (s) : Satisfactory
3. Location where test done : Inside Electrical Laboratory

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
18.06.2025	14.07.2025	24.07.2025

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
FORMELY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A2

Page 2 of 3

Test Report No. 2112B-2025-2026

Date : 25.07.2025

ULR- TC539025200000037F

4. Identification of Test / Product Specification and test Method / Procedure, if any : IS/IEC 60529:2001(RA 2019)
Procedure Manual no: MSME-TC/KOL/ELEC/TM-24
5. Any other specification relevant to a specific test : Not applicable
6. Any deviation, addition to or exclusion from the test specification. : Not applicable
7. Identification of any Non-standard test method/ procedure followed or Customer's Specific method : Not applicable
8. Description of Sampling Procedure : Nil
9. Environmental Condition during Testing : (28±2)°C & RH% : (55±2) %
10. Major Equipment/Standard/s used with Traceability :

Sl. No.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Dust Test Chamber	National Standard
10.2	Jet Proof Test Apparatus	

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



सात्यमेव जयते

Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
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GOVERNMENT OF INDIA
111 & 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A2

Page 3 of 3

Test Report No. 2112B-2025-2026

Date : 25.07.2025

ULR- TC539025200000037F

11. Examination, Measurement and Observations: (Discipline : Electrical
Group : Lamps, Luminaries & Accessories)

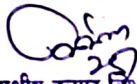
Sl.No.	Properties	Requirement as per Specification	Observation
11.1	Degree of Protection IP 65 Test		
11.1.1	<u>Degrees of Protection against solid foreign objects indicated by the first Characteristic Numeral (IP6X)</u> (Cl. No. 5.2, table 2 of IS/IEC 60529:2001) Dust-tight (Cl. No: 13.4 & 13.6) The test shall be continued for a period of 8 hours.	No ingress of dust	No ingress of Dust observed inside the Solar Flood Light Enclosure after the test. Result: Satisfactory
11.1.2	<u>Degrees of Protection against ingress of water Indicated by the Second Characteristic Numeral (IP X5)</u> (Cl. No. 6, table 3 & Table 8 of IS/IEC 60529:2001) Protected against water jets Cl. No: 14.2.5 The duration of test : 3 min.	Water protected in jets against the enclosure from any direction shall have no harmful effects	No ingress of water observed inside the Solar Flood Light Enclosure after the test. Result: Satisfactory

12. Measurement Uncertainty : Not applicable
(At 95% C.L., for k=2, Approx)

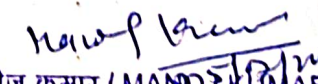
13. Remarks :

- All the tests were conducted for the sample Solar FLOOD LIGHT Enclosure as per Specification No. IS/IEC 60529:2001 and Customer's Test Request Letter. The observation, related only to the item tested, are tabulated above and the results apply to the sample as received.
- All the information / data as mentioned under "Issued To" & "Customer's Ref." and Sl. No. 1.(a), 1.(b) & 4 are provided by the Customer and the Laboratory does not assume any responsibility for the same.
- The Test Report shall not be reproduced, except in full, without the written approval of the Director, MSME-Testing Centre, Kolkata.

TESTED BY


25/07/2025
आशीष कुमार बिश्वास / ASHISH KUMAR BISWAS
सहायक निदेशक, (आई. ई. टी. एन.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
& 112, B.T. Road, Kolkata-700108

APPROVED & AUTHORIZED BY


मनोज कुमार / MANOJ KUMAR
सहायक निदेशक, (आई. ई. टी. एन.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
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999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

** The End of the Report **

LIST OF EQUIPMENTS AND MACHINERY

ELECTRICAL DIVISION	CHEMICAL DIVISION
List of Machinery and Equipment's ◆ Digital Power Meter, Make : Yokogawa ◆ Meg-Ohm Decade Box, Make : Tinsley ◆ Digital Tachometer, Make : Lutron ◆ AC Voltage Current Standard Make : Yokogawa ◆ AC/DC HV Divider with KV Meter Make : Hipotronics ◆ Sound Level Meter Make : Lutron ◆ Standard Resistance Box Make : Tinsley ◆ Digital Clamp on Tester Make : Yokogawa ◆ Multi-Function Calibrator Make : Druck Limited ◆ Digital Temperature/Humidity Meter Make : Eurolab (Hygrometer) ◆ Cromameter Make : Konica Minolta ◆ True RMS Multimeter Make : Fluke ◆ Digital Insulation Tester Make : Motwane ◆ Digimatic Caliper Make : Mitutoya ◆ LMT Photo Current Meter with 100W/230V GLS Lamp ◆ Make : LMT, Germany ◆ HV Test set Make : Shruti Electronics ◆ 8½ Digit Reference Multimeter Make : Fluke ◆ Analog vane Anemometer Make : CASELLA ◆ Stop watch Make : RACER ◆ AC/DC High Voltage Probe Make : FLUKE ◆ Digital Multimeter Make : H.P. ◆ Multi Product calibrator, Make : FLUKE ◆ 2 Stage Voltage Ratio Transformer Make : Tinsley	List of Machinery and Equipment's ◆ Analytical Balance ◆ Atomic Absorption Spectrophotometer ◆ Strohlein Apparatus ◆ Air oven ◆ pH/Conductivity Meter ◆ Muffle furnace ◆ Electro-Analyzer ◆ Voltmeter ◆ Salt Spray Corrosion cabinet ◆ Hot Plate, 24"×18", 3KW ◆ Gloss Meter, 60° ◆ Weather o meter ◆ Ultrapure Water Purifier ◆ Centrifuge with speed Regulator ◆ Dean & Stark Apparatus ◆ Fortin's Barometer ◆ Digital Temperature Indicator with PRT ◆ Weight Box
METALLURGY DIVISION	MECHANICAL DIVISION
List of Machinery and Equipment's ◆ Universal Tensile Testing machine Cap : 1000Kn. (digital) ◆ Universal Tensile Testing machine Cap : 10Kn. (digital) ◆ Rockwell Hardness Testing Machine ◆ Brinell Hardness Testing Machine Cap : 3000Kg. ◆ Vickers cum Brinell Hardness Testing M/C. Modal : HPO-250. ◆ Shore Hardness Tester. (Scale A & D) ◆ Impact Testing M/c. (Izod and Charpy) Model: IT-30 ◆ Impact Testing Machine (Cap : 1.4kgf-m) ◆ Extensometer. (Digital) ◆ Torsion Testing Machine. Cap : up to 5mm. ◆ Wrapping Testing Machine. ◆ Metallurgical Microscope. Make - LEICA, Magnification up to 500 X ◆ X-Ray Radiography Machine. Make : Andrex ◆ Ultrasonic Testing Machine. Make : ECIL ◆ Conditioning Chamber ◆ Humidity Chamber.	List of Machinery and Equipment's ◆ Slip Gauge Comparator. ◆ Gauge Block Set. ◆ Set of Length bar. ◆ Vernier Height Gauge. (Digital) ◆ Scale and Tape Calibration Unit. ◆ Profile Projector. Magnification : 50X ◆ Dial Indicator Calibrator ◆ Pressure Calibrator. Cap : 700 Bar ◆ Dead Weight Tester. Cap : 1100 kg/cm² ◆ Torque Wrench Calibrator. ◆ Hydraulic Test Pump Unit. ◆ Compressor Unit. ◆ Flow Testing unit for Fire Hydrant. ◆ Drop Testing unit for barrel & Drum ◆ Performance Testing Unit for Fire Extinguishers. ◆ Cold bending Testing rig.



सत्यमेव जयते

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GOVERNMENT OF INDIA

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

TEST REPORT/CALIBRATION CERTIFICATE

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ENTERPRISES-TESTING CENTRE

(A BIS RECOGNISED AND NABL ACCREDITED LABORATORY)

१११ व ११२ बी. टी. रोड, कोलकाता - ७०० १०८

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दूरभाष / Dial : 2577-0686 / 2482 / 4055

फैक्स / Fax : (91) (033) 2577-1353

ई-मेल / E-mail : dctc-er@dcmsme.gov.in

वेब / Web : www.rtcer.nic.in

संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

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१११ व ११२ बी. टी. रोड कोलकाता ७०० १०८



Govt. of India
Ministry of Micro, Small & Medium
Enterprises
MSME-TESTING CENTRE
111 & 112 B.T. Road, Kolkata-700 108

Issue No.0469.....

Date : 28/07/25

To
M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Sub. : Test Report / Calibration Certificate - regarding

Ref.: Customer's Test/Calibration Request Letter No. NIL(Via Mail) Date - 08.06.2025.

Dear Sir,

The following Test Report/s / Calibration Certificate/s on your Items / Products / Instruments / Components / Equipments are/is enclosed herewith for your kind information.

- Test Report No. / Calibration Certificate No. 2112A-2025-2026 dt.- 25.07.2025.
- Test Report No. / Calibration Certificate No. 2112B-2025-2026 dt.- 25.07.2025

where all the parameters are under NABL Accreditation and ULR No. is mentioned there.

If you need any clarification on Test Report / Calibration Certificate, please write / contact to "In Charge – Customer Service Cell" quoting our reference and date within 4 weeks from the date of issue of this Certificate. We are also enclosing herewith Customer Feedback Form. Kindly fill-up and send to The Director, MSME- Testing Centre, Kolkata.

Thanking you.

Yours faithfully,

Encl. : As above

Incharge - Customer Service Cell

for Director Incharge

ग्राहक सेवा कक्ष (प्रभारी)
CUSTOMER SERVICE CELL I/C
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
111 & 112, B. T. Road, Kolkata-700108



TEST REPORT

Job Code No. 25/06R/63 A2

Page 1 of 5

Test Report No. 2112A-2025-2026

Date : 25.07.2025

Issued To

M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Ref. : Customer's Test Request Letter No. NIL(Via Mail) dated- 08.06.2025.

1.a) Description of Test Item

: Sample stated as Solar FLOOD LIGHT
50W, Input Voltage 13.8V, DC

b) Identification of Test Item / Customer Identification, if any

: **A) Printed on the sample thus:**
POWERED BY OSRAM/PHILIPS
MAKE IN INDIA
B) Paper Pest on the sample thus:
ANSH SOLAR
DC FLOOD LIGHT
50 WATT
MADE ION INDIA

2. Condition of the Sample(s)

: Satisfactory

3. Location where test done

: Inside Photometry Laboratory

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
18.06.2025	23.06.2025	11.07.2025

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]



TEST REPORT

Job Code No. 25/06R/63 A2

Page 2 of 5

Test Report No. 2112A-2025-2026

Date : 25.07.2025

4. Identification of Test / Product Specification and Test Method / Procedure, if any : ANSI/IES LM-79-2019, Procedure Manual no: MSME-TC/KOL/ELEC/TM-23
5. Any other Specification relevant to a Specific Test : Nil
6. Any deviation, addition to or exclusion from the Test Specification : Nil
7. Identification of any Non - standard Test Method/ Procedure followed or Customer's Specific Method : Not applicable
8. Description of Sampling Procedure : Not applicable
9. Environmental Condition during Testing : (25±1)°C & RH% : (55±2)%
10. Major Equipment/Standard/s used with traceability :

SL. NO.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Photometric Test System for LED Lamp / LED Luminary with Integrated Sphere 2 meter & Standard Light Source	National Standard
10.2	Digital Power Meter Everfine Corporation PF 2010	

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]



TEST REPORT

Job Code No. 25/06R/63 A2

Page 3 of 5

Test Report No. 2112A-2025-2026

Date : 25.07.2025

11. Examination, Measurement and Observations:

Discipline: PHOTOMETRY

Group: LIGHT SOURCES (ELECTRIC LAMP)

Sl. No.	Properties	Observation
11.1	Photometric Test as per ANSI/IES LM-79-2019 at (25±1)°C	
11.1.1	Luminous Flux Luminous Flux at 13.8V, DC (Specified) after stabilization	4784 lm
11.1.2	Luminous Efficacy Efficacy	91.04 lm/W
11.1.3	Color Characteristics (Spectrum & Chromaticity diagram enclosed on page no.4 of 5)	
	a) Chromaticity coordinates	x coordinate : 0.3142 y coordinate : 0.3330
	b) Correlated Color Temperature (CCT)	6395 K
	c) Color Rendering Index (Ra)	83.0
11.1.4	Electrical Characteristics Electrical Characteristics at 13.8V DC (Specified)	
	a) Input Current	3.807 A
	b) Input Wattage	52.54 W

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

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TEST REPORT

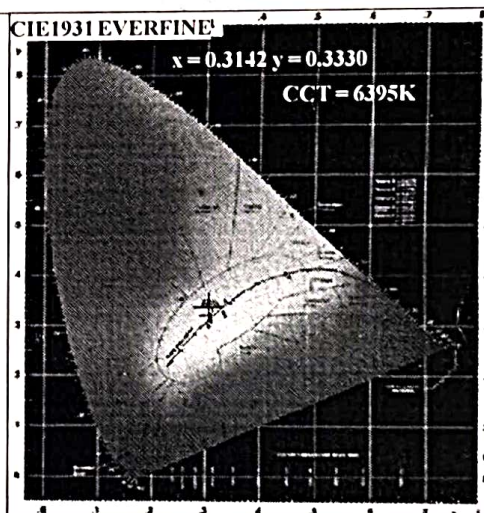
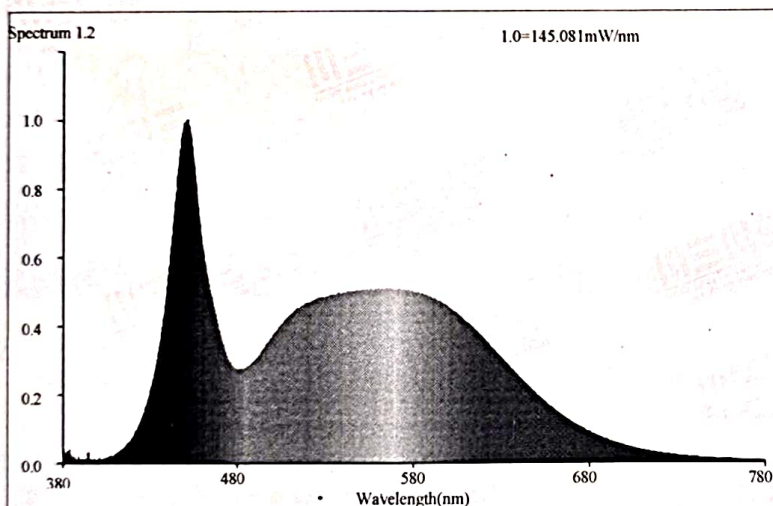
Job Code No. 25/06R/63 A2

Page 4 of 5

Test Report No. 2112A-2025-2026

Date : 25.07.2025

Spectrum & Chromaticity diagram



TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

TEST REPORT

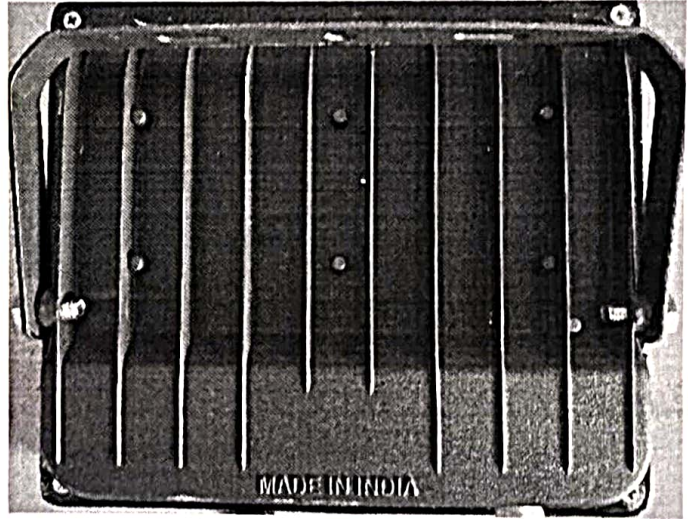
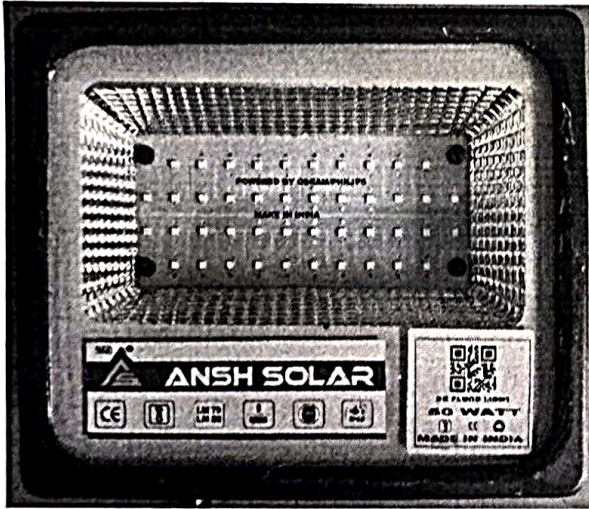
Job Code No. 25/06R/63 A2

Page 5 of 5

Test Report No. 2112A-2025-2026

Date : 25.07.2025

Photograph of Solar FLOOD LIGHT (under test)

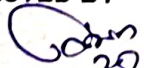


12. Measurement Uncertainty : i) $\pm 0.66\%$ for input Wattage
(At 95% C.L., for $k=2$, Approx.) ii) $\pm 1.8\%$ for Luminous Flux
iii) $\pm 1.8\%$ for Correlated Color Temperature (CCT)

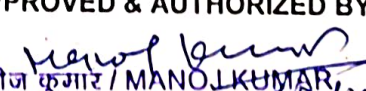
13. Remarks :

- All the tests were conducted for the sample Solar FLOOD LIGHT as per Specification No. ANSI/IES LM-79-2019 and Customer's Test Request Letter. The observation, related only to the item tested, are tabulated above and the results apply to the sample as received.
- All the information / data as mentioned under "Issued To" & "Customer's Ref." and Sl. No. 1.(a), 1.(b), & 4 are provided by the Customer and the Laboratory does not assume any responsibility for the same.
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TESTED BY


25/07/2025
आशीष कुमार बिश्वास / ASHIS KUMAR BISWAS
सहायक निदेशक, (आई.ई.टी.एस.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
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111 & 112, B.T. Road, Kolkata-700108

APPROVED & AUTHORIZED BY


मनोज कुमार / MANOJ KUMAR
सहायक निदेशक, (आई.ई.टी.एस.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
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111 & 112, B.T. Road, Kolkata-700108

** The End of the Report **

LIST OF EQUIPMENTS AND MACHINERY

ELECTRICAL DIVISION

List of Machinery and Equipment's

- ◆ Digital Power Meter, Make : Yokogawa
- ◆ Meg-Ohm Decade Box, Make : Tinsley
- ◆ Digital Tachometer, Make : Lutron
- ◆ AC Voltage Current Standard Make : Yokogawa
- ◆ AC/DC HV Divider with KV Meter Make : Hipotronics
- ◆ Sound Level Meter Make : Lutron
- ◆ Standard Resistance Box Make : Tinsley
- ◆ Digital Clamp on Tester Make : Yokogawa
- ◆ Multi-Function Calibrator Make : Druck Limited
- ◆ Digital Temperature/Humidity Meter Make : Eurolab (Hygrometer)
- ◆ Cromameter Make : Konica Minolta
- ◆ True RMS Multimeter Make : Fluke
- ◆ Digital Insulation Tester Make : Motwane
- ◆ Digimatic Caliper Make : Mitutoya
- ◆ LMT Photo Current Meter with 100W/230V GLS Lamp Make : LMT, Germany
- ◆ HV Test set Make : Shruti Electronics
- ◆ 8½ Digit Reference Multimeter Make : Fluke
- ◆ Analog vane Anemometer Make : CASELLA
- ◆ Stop watch Make : RACER
- ◆ AC/DC High Voltage Probe Make : FLUKE
- ◆ Digital Multimeter Make : H.P.
- ◆ Multi Product calibrator, Make : FLUKE
- ◆ 2 Stage Voltage Ratio Transformer Make : Tinsley

CHEMICAL DIVISION

List of Machinery and Equipment's

- ◆ Analytical Balance
- ◆ Atomic Absorption Spectrophotometer
- ◆ Strohlein Apparatus
- ◆ Air oven
- ◆ pH/Conductivity Meter
- ◆ Muffle furnace
- ◆ Electro-Analyzer
- ◆ Voltmeter
- ◆ Salt Spray Corrosion cabinet
- ◆ Hot Plate, 24"×18", 3KW
- ◆ Gloss Meter, 60°
- ◆ Weather o meter
- ◆ Ultrapure Water Purifier
- ◆ Centrifuge with speed Regulator
- ◆ Dean & Stark Apparatus
- ◆ Fortin's Barometer
- ◆ Digital Temperature Indicator with PRT
- ◆ Weight Box

METALLURGY DIVISION

List of Machinery and Equipment's

- ◆ Universal Tensile Testing machine Cap : 1000Kn. (digital)
- ◆ Universal Tensile Testing machine Cap : 10Kn. (digital)
- ◆ Rockwell Hardness Testing Machine
- ◆ Brinell Hardness Testing Machine Cap : 3000Kg.
- ◆ Vickers cum Brinell Hardness Testing M/C. Modal : HPO-250.
- ◆ Shore Hardness Tester. (Scale A & D)
- ◆ Impact Testing M/c. (Izod and Charpy) Model: IT-30
- ◆ Impact Testing Machine (Cap : 1.4kgf-m)
- ◆ Extensometer. (Digital)
- ◆ Torsion Testing Machine. Cap : up to 5mm.
- ◆ Wrapping Testing Machine.
- ◆ Metallurgical Microscope. Make - LEICA, Magnification up to 500 X
- ◆ X-Ray Radiography Machine. Make : Andrex
- ◆ Ultrasonic Testing Machine. Make : ECIL
- ◆ Conditioning Chamber
- ◆ Humidity Chamber.

MECHANICAL DIVISION

List of Machinery and Equipment's

- ◆ Slip Gauge Comparator.
- ◆ Gauge Block Set.
- ◆ Set of Length bar.
- ◆ Vernier Height Gauge. (Digital)
- ◆ Scale and Tape Calibration Unit.
- ◆ Profile Projector. Magnification : 50X
- ◆ Dial Indicator Calibrator
- ◆ Pressure Calibrator. Cap : 700 Bar
- ◆ Dead Weight Tester. Cap : 1100 kg/cm²
- ◆ Torque Wrench Calibrator.
- ◆ Hydraulic Test Pump Unit.
- ◆ Compressor Unit.
- ◆ Flow Testing unit for Fire Hydrant.
- ◆ Drop Testing unit for barrel & Drum
- ◆ Performance Testing Unit for Fire Extinguishers.
- ◆ Cold bending Testing rig.



भारत सरकार
GOVERNMENT OF INDIA

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ई-मेल / E-mail : dctc-er@dcmsme.gov.in

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संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

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पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
FORMELY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A1

Page 1 of 3

Test Report No. 2122B-2025-2026

Date : 31.07.2025

ULR- TC539025200000044F



TC-5390

Issued To

M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Ref. :Customer's Test Request Letter No. NIL(Via Mail) dated- 08.06.2025.

1. a) Description of Test Item : Sample stated as Inbuilt Solar Street Light Enclosures , IP 65
- b) Identification of Test Item / Customer Identification, if any : A) Printed on the sample thus:
POWERED BY OSRAM/PHILIPS
MAKE IN INDIA
B) Paper Pest on the sample thus:
ANSH SOLAR
INBUILT STREET LIGHT
40 WATT
MADE ION INDIA
2. Condition of the Sample (s) : Satisfactory
3. Location where test done : Inside Electrical Laboratory

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
18.06.2025	26.07.2025	30.07.2025

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
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GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A1

Page 2 of 3

Test Report No. 2122B-2025-2026

Date : 31.07.2025

ULR- TC539025200000044F

4. Identification of Test / Product Specification and test Method / Procedure, if any : IS/IEC 60529:2001(RA 2019)
Procedure Manual no: MSME-TC/KOL/ELEC/TM-24
5. Any other specification relevant to a specific test : Not applicable
6. Any deviation, addition to or exclusion from the test specification. : Not applicable
7. Identification of any Non-standard test method/ procedure followed or Customer's Specific method : Not applicable
8. Description of Sampling Procedure : Nil
9. Environmental Condition during Testing : (27±2)°C & RH% : (60±2) %
10. Major Equipment/Standard/s used with Traceability :

Sl. No.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Dust Test Chamber	National Standard
10.2	Jet Proof Test Apparatus	

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]



TEST REPORT

Job Code No. 25/06R/63 A1

Page 3 of 3,

Test Report No. 2122B-2025-2026

Date : 31.07.2025

ULR- TC539025200000044F

11. Examination, Measurement and Observations: (Discipline : Electrical
Group : Lamps, Luminaries & Accessories)

Sl.No.	Properties	Requirement as per Specification	Observation
11.1	Degree of Protection IP 65 Test		
11.1.1	<u>Degrees of Protection against solid foreign objects indicated by the first Characteristic Numeral (IP6X)</u> (Cl. No. 5.2, table 2 of IS/IEC 60529:2001) Dust-tight (Cl. No: 13.4 & 13.6) The test shall be continued for a period of 8 hours.	No ingress of dust	No ingress of Dust observed inside the Inbuilt Solar Street Light Enclosures after the test. Result: Satisfactory
11.1.2	<u>Degrees of Protection against ingress of water Indicated by the Second Characteristic Numeral (IP X5)</u> (Cl. No. 6, table 3 & Table 8 of IS/IEC 60529:2001) Protected against water jets Cl. No: 14.2.5 The duration of test : 3 min.	Water protected in jets against the enclosure from any direction shall have no harmful effects	No ingress of water observed inside the Inbuilt Solar Street Light Enclosures after the test. Result: Satisfactory

12. Measurement Uncertainty : Not applicable
(At 95% C.L., for $k=2$, Approx)

13. Remarks :

- All the tests were conducted for the sample Inbuilt Solar Street Light Enclosures as per Specification No. IS/IEC 60529:2001 and Customer's Test Request Letter. The observation, related only to the item tested, are tabulated above and the results apply to the sample as received.
- All the information / data as mentioned under "Issued To" & "Customer's Ref." and Sl. No. 1.(a), 1.(b) & 4 are provided by the Customer and the Laboratory does not assume any responsibility for the same.
- The Test Report shall not be reproduced, except in full, without the written approval of the Director, MSME-Testing Centre, Kolkata.

TESTED BY

31/07/2025
आशीष कुमार बिश्वास / ASHIS KUMAR BISWAS
सहायक निदेशक, (आई.टी.एस.) / Assistant Director, (IEOS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

APPROVED & AUTHORIZED BY

मनोज कुमार / MANOJ KUMAR
सहायक निदेशक, (आई.टी.एस.) / Assistant Director, (IEOS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

** The End of the Report **

LIST OF EQUIPMENTS AND MACHINERY

ELECTRICAL DIVISION	CHEMICAL DIVISION
List of Machinery and Equipment's ◆ Digital Power Meter, Make : Yokogawa ◆ Meg-Ohm Decade Box, Make : Tinsley ◆ Digital Tachometer, Make : Lutron ◆ AC Voltage Current Standard Make : Yokogawa ◆ AC/DC HV Divider with KV Meter Make : Hipotronics ◆ Sound Level Meter Make : Lutron ◆ Standard Resistance Box Make : Tinsley ◆ Digital Clamp on Tester Make : Yokogawa ◆ Multi-Function Calibrator Make : Druck Limited ◆ Digital Temperature/Humidity Meter Make : Eurolab (Hygrometer) ◆ Cromameter Make : Konica Minolta ◆ True RMS Multimeter Make : Fluke ◆ Digital Insulation Tester Make : Motwane ◆ Digimatic Caliper Make : Mitutoya ◆ LMT Photo Current Meter with 100W/230V GLS Lamp ◆ Make : LMT, Germany ◆ HV Test set Make : Shruti Electronics ◆ 8½ Digit Reference Multimeter Make : Fluke ◆ Analog vane Anemometer Make : CASELLA ◆ Stop watch Make : RACER ◆ AC/DC High Voltage Probe Make : FLUKE ◆ Digital Multimeter Make : H.P. ◆ Multi Product calibrator, Make : FLUKE ◆ 2 Stage Voltage Ratio Transformer Make : Tinsley	List of Machinery and Equipment's ◆ Analytical Balance ◆ Atomic Absorption Spectrophotometer ◆ Strohlein Apparatus ◆ Air oven ◆ pH/Conductivity Meter ◆ Muffle furnace ◆ Electro-Analyzer ◆ Voltmeter ◆ Salt Spray Corrosion cabinet ◆ Hot Plate, 24"×18", 3KW ◆ Gloss Meter, 60° ◆ Weather o meter ◆ Ultrapure Water Purifier ◆ Centrifuge with speed Regulator ◆ Dean & Stark Apparatus ◆ Fortin's Barometer ◆ Digital Temperature Indicator with PRT ◆ Weight Box
METALLURGY DIVISION	MECHANICAL DIVISION
List of Machinery and Equipment's ◆ Universal Tensile Testing machine Cap : 1000Kn. (digital) ◆ Universal Tensile Testing machine Cap : 10Kn. (digital) ◆ Rockwell Hardness Testing Machine ◆ Brinell Hardness Testing Machine Cap : 3000Kg. ◆ Vickers cum Brinell Hardness Testing M/C. Modal : HPO-250. ◆ Shore Hardness Tester. (Scale A & D) ◆ Impact Testing M/c. (Izod and Charpy) Model: IT-30 ◆ Impact Testing Machine (Cap : 1.4kgf-m) ◆ Extensometer. (Digital) ◆ Torsion Testing Machine. Cap : up to 5mm. ◆ Wrapping Testing Machine. ◆ Metallurgical Microscope. Make - LEICA, Magnification up to 500 X ◆ X-Ray Radiography Machine. Make : Andrex ◆ Ultrasonic Testing Machine. Make : ECIL ◆ Conditioning Chamber ◆ Humidity Chamber.	List of Machinery and Equipment's ◆ Slip Gauge Comparator. ◆ Gauge Block Set. ◆ Set of Length bar. ◆ Vernier Height Gauge. (Digital) ◆ Scale and Tape Calibration Unit. ◆ Profile Projector. Magnification : 50X ◆ Dial Indicator Calibrator ◆ Pressure Calibrator. Cap : 700 Bar ◆ Dead Weight Tester. Cap : 1100 kg/cm² ◆ Torque Wrench Calibrator. ◆ Hydraulic Test Pump Unit. ◆ Compressor Unit. ◆ Flow Testing unit for Fire Hydrant. ◆ Drop Testing unit for barrel & Drum ◆ Performance Testing Unit for Fire Extinguishers. ◆ Cold bending Testing rig.



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

TEST REPORT/CALIBRATION CERTIFICATE

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MICRO, SMALL & MEDIUM
ENTERPRISES-TESTING CENTRE

(A BIS RECOGNISED AND NABL ACCREDITED LABORATORY)

१११ व ११२ बी. टी. रोड, कोलकाता - ७०० १०८
111 & 112, B. T. ROAD, KOLKATA-700 108

दुरभाष / Dial : 2577-0686 / 2482 / 4055

फैक्स / Fax : (91) (033) 2577-1353

ई-मेल / E-mail : dctc-er@dcmsme.gov.in

वेब / Web : www.rtcer.nic.in

संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

भारत सरकार

सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
[पूर्वतन क्षेत्रीय परीक्षण केन्द्र (पू.क्षे.)]
111 व 112 बी. टी. रोड, कोलकाता-700 108

Director : (033)-2577-0686
Office : (033)-2577-2482
(033)-2577-4055



Govt. Of India

Ministry of Micro, Small & Medium Enterprises

MSME - TESTING CENTRE

[Formerly REGIONAL TESTING CENTRE (E.R.)]

111 & 112, B. T. Road, Kolkata - 700 108

Email : dtce-er@dcmsme.gov.in
Fax : (033)-2577-1353
Web : www.msmtckol.gov.in

सन्दर्भसंख्या./Ref. Test Report No. No 0301 2020 2021

Dispatch No-0693

दिनांक/Date : 23.12.2020

Page 1 of 5..

सेवामें,

To

ANSH SOLAR

BC 257, SAMAR PALLY KRISHNAPUR, 24PGS (N),

KOLKATA-700102

विषय : अंशांकन प्रमाणपत्र / जाँच प्रतिवेदन - अपेक्षया।

Sub. : Test Report - regarding

ग्राहक सन्दर्भसंख्या :

Ref. : Customer's Test Request Letter No. MAIL dt. 30.10. 2020.

महोदय,

No 0301 2020 2021

आपके उपकरण / घटकों /

अंशांकन प्रमाणपत्र / जाँच प्रतिवेदन सं. उत्पादों / जाँच नमूने पर आपकी जानकारी के लिए संलग्न है। यदि आपको अंशांकन प्रमाणपत्र / जाँच प्रतिवेदन पर किसी भी स्पष्टीकरणकी आवश्यकता है, तो कृपया इस प्रमाणपत्र केजारी होनेकी तारीख से 4 सप्ताहके भीतर हमारे संदर्भ और तारीखको उद्धृत करते हुए प्रभारी ग्राहक सेवा सेल को लिखें अथवा उनसे संपर्क करें। हम इसके साथही फीड बैक फॉर्म भी भेज रहे हैं, कृपया फार्म भरें और इसे निदेशक, एम.एस.एम.ई - परीक्षण केंद्र, कोलकाता को भेजे।

धन्यवाद।

संलग्नक : पत्रानुसार।

भवदीय
शुभंकर संतरा/Suvankar Santra
प्रभारी ग्राहक सेवा सेल
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार/Govt. of India
111 & 112, B. T. Road, Kolkata-700108

Dear Sir,

Calibration Certificate / Test Report No. No 0301 2020 2021 on your instruments/components/equipment/Product are/is enclosed herewith for your kind information. If you need any clarification on Calibration Certificate / Test Report, please write / contact to "In Charge - Customer Service Cell" quoting our reference and date within 4 weeks from the date of issue of this Certificate. We are also enclosing herewith Customer Feedback Form. Kindly fill-up and send to The Director, MSME-Testing Centre, Kolkata.

Thanking you.

Encl. : As above

Yours faithfully,
Incharge - Customer Service Cell
शुभंकर संतरा/Suvankar Santra
सहायक निदेशक/Assistant Director
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार/Govt. of India
111 & 112, B. T. Road, Kolkata-700108



TEST REPORT

No 0301 2020 2021

Page 2 of 5

- Job Code No. 20/11R/11(I)
1. a) Description of Test Item : Sample stated to be one no of LED based Solar Street Light 12.8V, DC, 1.5A, 18W
- b) Identification of Test Item / Customer Identification, if any : a) Customer : Marked on the Sample thus
ANSH SOLAR POWER BY PHILIPS
S.I.P.L PV +
PV -
b) MSME-TC: SSL/18/071220
2. Condition of the Sample(s) : Satisfactory
3. Location where test done : Inside Laboratory
4. Identification of Test / Product Specification and test Method / Procedure, if any : Method LM-79-2008
5. Any other specification relevant to a specific test : Not Applicable
6. Any deviation, addition to or exclusion from the test specification : Not Applicable
7. Identification of any Non-standard test method/ procedure followed or Client's Specific method : Not Applicable
8. Description of Sampling Procedure : Not Applicable
9. Environmental Condition during Testing : Amb. Temp.: (27 ± 2) °C, R.H : (50 ± 2)%

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
17.11.2020	07.12.2020	07.12.2020

TESTED BY

APPROVED BY



सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108

TEST REPORT

No 0301 2020 2021 -

Job Code No. 20/11R/11(I)

Page 3 of 5

10. Major Equipment/Standard/s used with Traceability :

Sl. No.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Photometric Test Set with Integrated Sphere 2 meter (Compact Array Spectrometer)	International Standard
10.2	Digital Power Meter (PF 2010)	
10.3	Standard Light Source (Standard Lamp)	

11. Examination, Measurement and Observations:

Sl. No.	Properties	Observations
11.1	<u>Luminous Flux</u> Total Luminous Flux (Lumens) at 12.8V DC	2778
11.2	<u>Luminous Efficacy</u> Efficacy (lm/W)	146.98
11.3	<u>Color Characteristics</u> (Spectrum & Chromaticity diagram enclosed on page no.4 of 5)	
	a) Chromaticity coordinates	x coordinate : 0.3080 y coordinate : 0.3294
	b) Peak Wavelength (nm)	452.8
	c) Dominant Wavelength (nm)	489.7
	d) Correlated Color Temperature (CCT) (K)	6760
	e) Color Rendering Index (Avg.)	75.1
11.4	<u>Electrical Characteristics</u> Electrical Characteristics at 12.8V DC	
	a) Input Voltage (V)	12.8
	b) Input Current (A)	1.477
	c) Input Power (W)	18.9

TESTED BY

APPROVED BY

**MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111 & 112, B. T. Road, Kolkata - 700108**



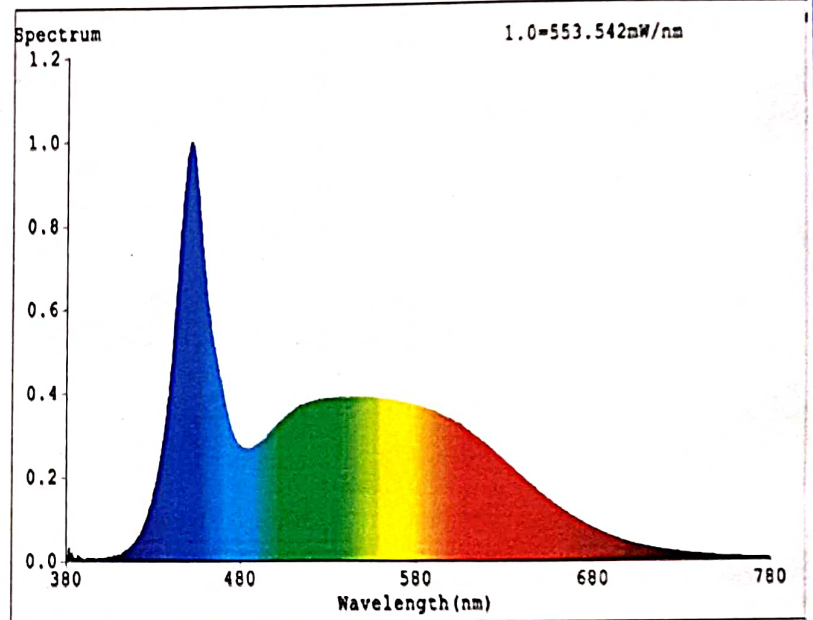
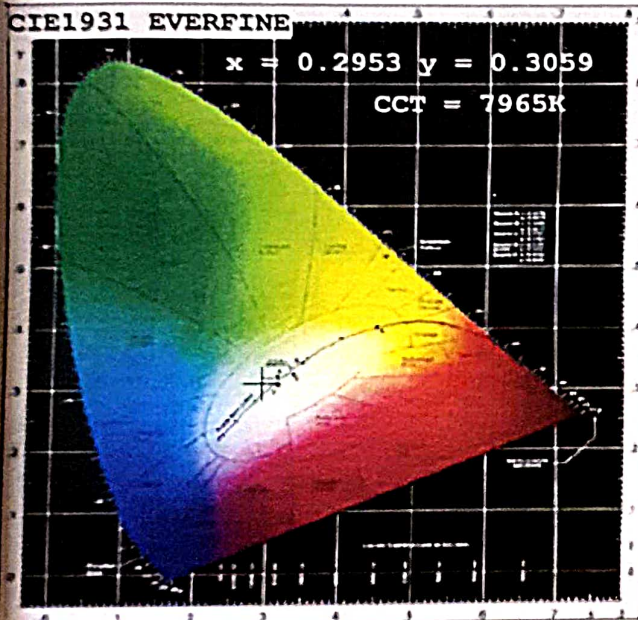
**सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108**

TEST REPORT

No 0301 2020 2021 -

Job Code No. 20/11R/11(I)

Page 4 of 5

Spectrum & Chromaticity diagram

TESTED BY

APPROVED BY



सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108

TEST REPORT

No 0301 2020 2021

Job Code No. 20/11R/11(I)

Page 5 of 5

Photograph of LED based Solar Street Light (under test)



12. Measurement Uncertainty : Not applicable
(At 95% C.L., k=2)

13. Remarks: i) All the tests were carried out for the sample of LED based Solar Street Light as per Customer's Test Request letter and method LM-79-2008 observations related only to the item tested are tabulated above

ii) The Test Report shall not be reproduced except in full, without written approval of the Director, MSME-TC, Kolkata.

**** The End of the Report ****

TESTED BY

(Signature)
(A.K.Biswas), Inv.(Electrical)

APPROVED BY

(Signature)
मनोज कुमार/MANOJ KUMAR
सहायक निदेशक (विद्युत) (Assistant Director)
सूक्ष्म, लघु एवं मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार/Govt. of India
१११/११२, बी. टी. रोड, कोलकाता-७००१०८
111 & 112, B. T. Road, Kolkata-700108



भारत सरकार
GOVERNMENT OF INDIA

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

TEST REPORT/CALIBRATION CERTIFICATE

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MICRO, SMALL & MEDIUM
ENTERPRISES-TESTING CENTRE

(A BIS RECOGNISED AND NABL ACCREDITED LABORATORY)

१११ व ११२ बी. टी. रोड, कोलकाता - ७०० १०८
111 & 112, B. T. ROAD, KOLKATA-700 108
दुरभाष / Dial : 2577-0686 / 2482 / 4055
फैक्स / Fax : (91) (033) 2577-1353
ई-मेल / E-mail : dctc-er@dcmsme.gov.in
वेब / Web : www.rtcer.nic.in

संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

भारत सरकार
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
सूक्ष्म, लघु और मध्यम उद्यम-
परीक्षण केन्द्र
१११ व ११२ बी. टी. रोड कोलकाता ७०० १०८



Govt. of India
Ministry of Micro, Small & Medium
Enterprises
MSME-TESTING CENTRE
111 & 112 B.T. Road, Kolkata-700 108

Issue No.0155.....

Date : 09/05/25

To
M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Sub. : Test Report / Calibration Certificate - regarding
Ref.: Customer's Test/Calibration Request Letter No. NIL(Via Mail) Date - 26.02.2025.

Dear Sir,

The following Test Report/s / Calibration Certificate/s on your Items / Products / Instruments / Components / Equipments are/is enclosed herewith for your kind information.

- Test Report No. / Calibration Certificate No. 2034-2025-2026 dt.- 07.05.2025.

If you need any clarification on Test Report / Calibration Certificate, please write / contact to "In Charge – Customer Service Cell" quoting our reference and date within 4 weeks from the date of issue of this Certificate. We are also enclosing herewith Customer Feedback Form. Kindly fill-up and send to The Director, MSME- Testing Centre, Kolkata.

Thanking you.

Yours faithfully,

Encl. : As above


Incharge - Customer Service Cell

for Director Incharge
ग्राहक सेवा कक्ष (प्रभारी)
CUSTOMER SERVICE CELL I/C
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
111 & 112, B. T. Road, Kolkata-700108

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
**MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE**
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/03R/22(I)

Page 1 of 5

Test Report No. 2034-2025-2026

Date : 07.05.2025

Issued To

M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Ref. :Customer's Test Request Letter No. NIL(Via Mail) dated- 26.02.2025.

1.a) Description of Test Item

: Sample stated to be Solar LED INBUILT FLOOD
LIGHT 60W, Input Voltage 12.8V, DC

b) Identification of Test Item / Customer Identification, if any

: Printed on the sample thus:
ANSH SOLAR

Paper Pest on the sample thus:

LED BASED SOLAR
SOLAR INBUILT FLOOD
LIGHT 60 WATT
AS/INBFL/50/24
ANSH SOLAR

2. Condition of the Sample(s)

: Satisfactory

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
13.03.2025	27.03.2025	06.05.2025

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
**MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE**
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Page 2 of 5

Job Code No. 25/03R/22(I)

Date : 07.05.2025

Test Report No. 2034-2025-2026

3. Location where test done : Inside Laboratory
4. Identification of Test/Product : ANSI/IES LM-79-2019,
Specification and test Method/Procedure, if any Procedure Manual DOC No. MSME-TC/KOL/ELEC/TM-23
5. Any other specification relevant to a specific test : Nil
6. Any deviation, addition to or exclusion from the test specification : Nil
7. Identification of any non standard test method / procedure followed or Client's Specific method : Not applicable
8. Description of Sampling Procedure : Not applicable
9. Environmental Condition during the tests : Amb. Temp. : (25±1) °C
10. Major Equipment/Standard/s used with traceability:

SL. NO.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Photometric Test System for LED Lamp / LED Luminary with Integrated Sphere 2 meter & Standard Light Source	National Standard
10.2	Digital Power Meter Everfine Corporation PF 2010	

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
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Format No. : MSME-TC/KOL/SM-05/F-09
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TESTING CENTRE**
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/03R/22(I)

Page 3 of 5

Test Report No. 2034-2025-2026

Date : 07.05.2025

11. Examination, Measurement and Observations:

Discipline/Group: Photometric- Light Source
(Electric Lamp)

Sl. No.	Properties	Observations
11.1	Photometric Test as per ANSI/IES LM-79-2019 at (25±1)°C	
11.1.1	Luminous Flux Luminous Flux at 12.8V, DC after stabilization	7185 lm
11.1.2	Luminous Efficacy Efficacy	130.74 lm/W
11.1.3	Color Characteristics (Spectrum & Chromaticity diagram enclosed on page no.4 of 4)	
	a) Chromaticity coordinates	x coordinate : 0.3116 y coordinate : 0.3245
	b) Correlated Color Temperature (CCT)	6606 K
	c) Color Rendering Index (Ra)	73.6
11.1.4	Electrical Characteristics Electrical Characteristics at 12.8V DC	
	a) Input Current	4.294 A
	b) Input Wattage	54.96 W

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SMP-001
**MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE**
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

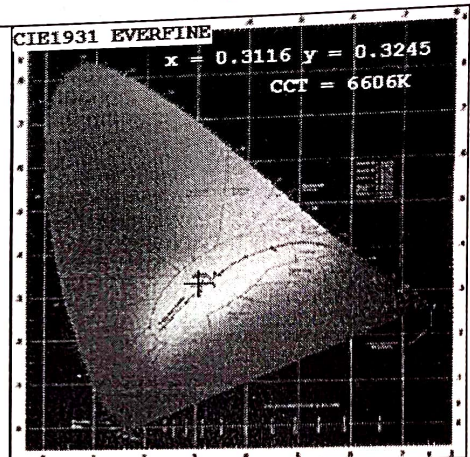
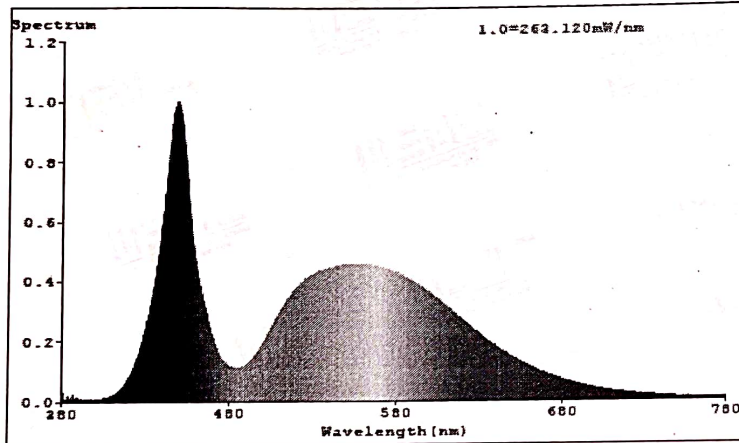
Page 4 of 5

Job Code No. 25/03R/22(I)

Date : 07.05.2025

Test Report No. 2034-2025-2026

Spectrum & Chromaticity diagram



TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
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TESTING CENTRE**
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111 & 112, B. T. Road, Kolkata - 700108

TEST REPORT

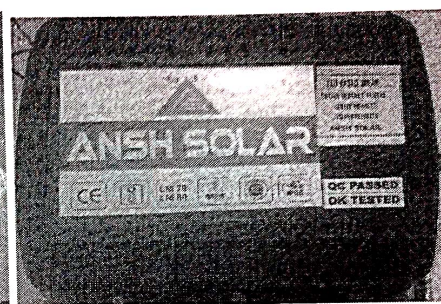
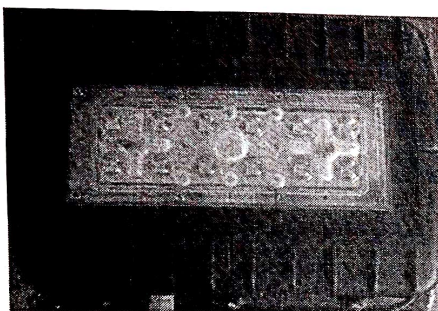
Job Code No. 25/03R/22(I)

Page 5 of 5

Test Report No. 2034-2025-2026

Date : 07.05.2025

Photograph of Solar LED INBUILT FLOOD LIGHT (under test)



12. Measurement Uncertainty : i) $\pm 0.66\%$ for input Wattage
(At 95% C.L., for $k=2$, Approx.) ii) $\pm 2.5\%$ for Luminous Flux

13. Remarks: i) All the tests were carried out for the sample of Solar LED INBUILT FLOOD LIGHT, as per customer's test request letter and ANSI/IES LM-79-2019 observations related only to the item tested are tabulated above.

- ii) The Test Report shall not be reproduced except in full, without written approval of the Director, MSME-TC, Kolkata.

TESTED BY

07/05/2025
आशीष कुमार बिश्वास / ASHIS KUMAR BISWAS
सहायक निदेशक, (आई.ई.डी.एस.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

APPROVED BY

Manoj Kumar
मनोज कुमार / MANOJ KUMAR
सहायक निदेशक, ग्रेड-1 (आई.ई.डी.एस.) / Assistant Director, Gr-1 (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

** The End of the Report **

LIST OF EQUIPMENTS AND MACHINERY

ELECTRICAL DIVISION

List of Machinery and Equipment's

- ◆ Digital Power Meter, Make : Yokogawa
- ◆ Meg-Ohm Decade Box, Make : Tinsley
- ◆ Digital Tachometer, Make : Lutron
- ◆ AC Voltage Current Standard Make : Yokogawa
- ◆ AC/DC HV Divider with KV Meter Make : Hipotronics
- ◆ Sound Level Meter Make : Lutron
- ◆ Standard Resistance Box Make : Tinsley
- ◆ Digital Clamp on Tester Make : Yokogawa
- ◆ Multi-Function Calibrator Make : Druck Limited
- ◆ Digital Temperature/Humidity Meter Make : Eurolab (Hygrometer)
- ◆ Cromameter Make : Konica Minolta
- ◆ True RMS Multimeter Make : Fluke
- ◆ Digital Insulation Tester Make : Motwane
- ◆ Digimatic Caliper Make : Mitutoya
- ◆ LMT Photo Current Meter with 100W/230V GLS Lamp
- ◆ Make : LMT, Germany
- ◆ HV Test set Make : Shruti Electronics
- ◆ 8½ Digit Reference Multimeter Make : Fluke
- ◆ Analog vane Anemometer Make : CASELLA
- ◆ Stop watch Make : RACER
- ◆ AC/DC High Voltage Probe Make : FLUKE
- ◆ Digital Multimeter Make : H.P.
- ◆ Multi Product calibrator, Make : FLUKE
- ◆ 2 Stage Voltage Ratio Transformer Make : Tinsley

CHEMICAL DIVISION

List of Machinery and Equipment's

- ◆ Analytical Balance
- ◆ Atomic Absorption Spectrophotometer
- ◆ Strohlein Apparatus
- ◆ Air oven
- ◆ pH/Conductivity Meter
- ◆ Muffle furnace
- ◆ Electro-Analyzer
- ◆ Voltmeter
- ◆ Salt Spray Corrosion cabinet
- ◆ Hot Plate, 24"×18", 3KW
- ◆ Gloss Meter, 60°
- ◆ Weather o meter
- ◆ Ultrapure Water Purifier
- ◆ Centrifuge with speed Regulator
- ◆ Dean & Stark Apparatus
- ◆ Fortin's Barometer
- ◆ Digital Temperature Indicator with PRT
- ◆ Weight Box

METALLURGY DIVISION

List of Machinery and Equipment's

- ◆ Universal Tensile Testing machine Cap : 10000 kg (digital)
- ◆ Universal Tensile Testing machine Cap : 1000 kg
- ◆ Rockwell Hardness Testing Machine
- ◆ Brinell Hardness Testing Machine Cap : 3000 kg.
- ◆ Vickers cum Brinell Hardness Testing M/C. Model : HPO-250.
- ◆ Shore Hardness Tester. (Scale A & D)
- ◆ Impact Testing M/c. (Izod and Charpy) Model: IT-30
- ◆ Impact Testing Machine (Cap : 1.4kgf-m)
- ◆ Extensometer. (Digital)
- ◆ Torsion Testing Machine. Cap : up to 5mm.
- ◆ Wrapping Testing Machine.
- ◆ Metallurgical Microscope. Make - LEICA, Magnification up to 500 X
- ◆ X-Ray Radiography Machine. Make : Andrex
- ◆ Ultrasonic Testing Machine. Make : ECIL
- ◆ Conditioning Chamber
- ◆ Humidity Chamber.

MECHANICAL DIVISION

List of Machinery and Equipment's

- ◆ Slip Gauge Comparator.
- ◆ Gauge Block Set.
- ◆ Set of Length bar.
- ◆ Vernier Height Gauge. (Digital)
- ◆ Scale and Tape Calibration Unit.
- ◆ Profile Projector. Magnification : 50X
- ◆ Dial Indicator Calibrator
- ◆ Pressure Calibrator. Cap : 700 Bar
- ◆ Dead Weight Tester. Cap : 1100 kg/cm²
- ◆ Torque Wrench Calibrator.
- ◆ Hydraulic Test Pump Unit.
- ◆ Compressor Unit.
- ◆ Flow Testing unit for Fire Hydrant.
- ◆ Drop Testing unit for barrel & Drum
- ◆ Performance Testing Unit for Fire
- ◆ Extinguishers.
- ◆ Cold bending Testing rig.



भारत सरकार
GOVERNMENT OF INDIA

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

TEST REPORT/CALIBRATION CERTIFICATE

सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
MICRO, SMALL & MEDIUM
ENTERPRISES-TESTING CENTRE

(A BIS RECOGNISED AND NABL ACCREDITED LABORATORY)

१११ व ११२ बी. टी. रोड, कोलकाता - ७०० १०८
111 & 112, B. T. ROAD, KOLKATA-700 108

दुरभाष / Dial : 2577-0686 / 2482 / 4055

फैक्स / Fax : (91) (033) 2577-1353

ई-मेल / E-mail : dctc-er@dcmsme.gov.in

वेब / Web : www.rtcer.nic.in

संकेत : आगे पत्राचार के लिए कृपया निष्पादन जाँच प्रतिवेदन / अंशांकन प्रमाणक संख्या उल्लेखित करें।
N.B. : For future correspondence, please quote Test Report / Calibration Certificate No.

भारत सरकार
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
सूक्ष्म, लघु और मध्यम उद्यम-
परीक्षण केन्द्र
१११ व ११२ बी. टी. रोड कोलकाता ७०० १०८



Govt. of India
Ministry of Micro, Small & Medium
Enterprises
MSME-TESTING CENTRE
111 & 112 B.T. Road, Kolkata-700 108

Issue No.0488.....

Date : 01/08/25

To
M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Sub. : Test Report / Calibration Certificate - regarding
Ref.: Customer's Test/Calibration Request Letter No. NIL(Via Mail) Date - 08.06.2025.

Dear Sir,

The following Test Report/s / Calibration Certificate/s on your Items / Products / Instruments / Components / Equipments are/is enclosed herewith for your kind information.

- Test Report No. / Calibration Certificate No. 2122A-2025-2026 dt.- 31.07.2025.
- Test Report No. / Calibration Certificate No. 2122B-2025-2026 dt.- 31.07.2025

where all the parameters are under NABL Accreditation and ULR No. is mentioned there.

If you need any clarification on Test Report / Calibration Certificate, please write / contact to "In Charge – Customer Service Cell" quoting our reference and date within 4 weeks from the date of issue of this Certificate. We are also enclosing herewith Customer Feedback Form. Kindly fill-up and send to The Director, MSME- Testing Centre, Kolkata.

Thanking you.

Yours faithfully,

Encl. : As above


Incharge - Customer Service Cell

for Director Incharge
ग्राहक सेवा कक्ष (प्रभारी)
CUSTOMER SERVICE CELL I/C
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
111 & 112, B. T. Road, Kolkata-700108

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

भारत सरकार

111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE

FORMELY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA

111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A1

Page 1 of 5

Test Report No. 2122A-2025-2026

Date : 31.07.2025

Issued To

M/S. ANSH SOLAR
BC-257, SAMAR PALLY, KRISHNAPUR,
KOLKATA, NORTH 24 PARGANAS,
PIN - 700102.

Ref. :Customer's Test Request Letter No. NIL(Via Mail) dated- 08.06.2025.

- 1.a) Description of Test Item : Sample stated as Inbuilt Solar Street Light
40W, Input Voltage 13.8V, DC
- b) Identification of Test Item / Customer Identification, if any : **A) Printed on the sample thus:**
POWERED BY OSRAM/PHILIPS
MAKE IN INDIA
B) Paper Pst on the sample thus:
ANSH SOLAR
INBUILT STREET LIGHT
40 WATT
MADE ION INDIA
2. Condition of the Sample(s) : Satisfactory
3. Location where test done : Inside Photometry Laboratory

Date of Receipt of Job	Date of Commencement of Job	Date of completion of Job
18.06.2025	25.06.2025	22.07.2025

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
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GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A1

Page 2 of 5

Test Report No. 2122A-2025-2026

Date : 31.07.2025

4. Identification of Test / Product Specification and Test Method / Procedure, if any : ANSI/IES LM-79-2019, Procedure Manual no: MSME-TC/KOL/ELEC/TM-23
5. Any other Specification relevant to a Specific Test : Nil
6. Any deviation, addition to or exclusion from the Test Specification : Nil
7. Identification of any Non - standard Test Method/ Procedure followed or Customer's Specific Method : Not applicable
8. Description of Sampling Procedure : Not applicable
9. Environmental Condition during Testing : (25±1)°C & RH% : (55±2)%
10. Major Equipment/Standard/s used with traceability :

SL. NO.	NAME OF THE INSTRUMENT	TRACEABILITY
10.1	Photometric Test System for LED Lamp / LED Luminary with Integrated Sphere 2 meter & Standard Light Source	National Standard
10.2	Digital Power Meter Everfine Corporation PF 2010	

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)

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Format No. : MSME-TC/KOL/SM-05/F-09
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FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

Job Code No. 25/06R/63 A1

Page 3 of 5

Test Report No. 2122A-2025-2026

Date : 31.07.2025

11. Examination, Measurement and Observations:

Discipline: PHOTOMETRY

Group: LIGHT SOURCES (ELECTRIC LAMP)

Sl. No.	Properties	Observation
11.1	Photometric Test as per ANSI/IES LM-79-2019 at (25±1)°C	
11.1.1	<u>Luminous Flux</u> Luminous Flux at 13.8V, DC (Specified) after stabilization	3810 lm
11.1.2	<u>Luminous Efficacy</u> Efficacy	95.89 lm/W
11.1.3	<u>Color Characteristics</u> (Spectrum & Chromaticity diagram enclosed on page no.4 of 5)	
	a) Chromaticity coordinates	x coordinate : 0.3131 y coordinate : 0.3286
	b) Correlated Color Temperature (CCT)	6486 K
	c) Color Rendering Index (Ra)	84.5
11.1.4	<u>Electrical Characteristics</u> Electrical Characteristics at 13.8V DC (Specified)	
	a) Input Current	2.879 A
	b) Input Wattage	39.73 W

TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]

सूक्ष्म, लघु एवं मध्यम उद्यम-परीक्षण केन्द्र
पुर्वतन क्षेत्रीय परीक्षण केन्द्र (पु.क्षे)
भारत सरकार
111 एवं 112, बी. टी. रोड, कोलकाता-700108



Format No. : MSME-TC/KOL/SM-05/F-09
MICRO SMALL & MEDIUM ENTERPRISES-
TESTING CENTRE
FORMERLY REGIONAL TESTING CENTRE (E.R.)
GOVERNMENT OF INDIA
111& 112, B. T. Road, Kolkata - 700108

TEST REPORT

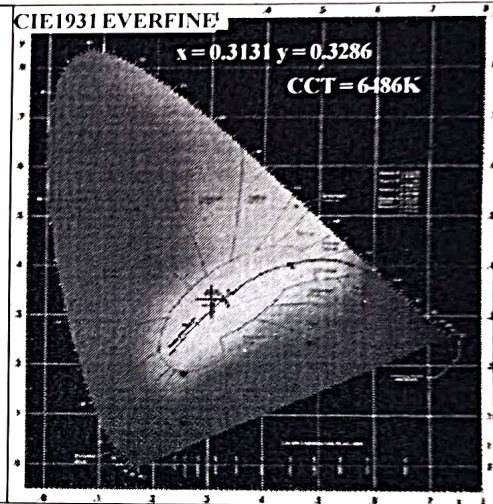
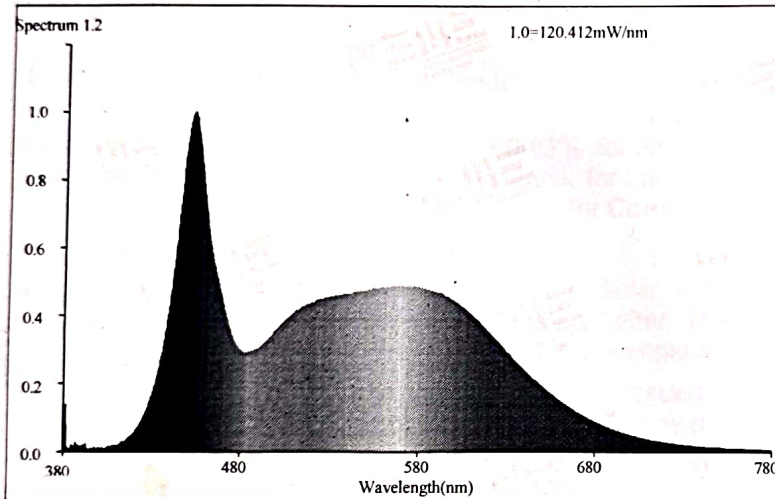
Job Code No. 25/06R/63 A1

Page 4 of 5

Test Report No. 2122A-2025-2026

Date : 31.07.2025

Spectrum & Chromaticity diagram



TESTED BY

A.K. Biswas
[Asstt. Director (IEDS)]

APPROVED & AUTHORIZED BY

Manoj Kumar
[Asstt. Director, Gr-I (IEDS)]



TEST REPORT

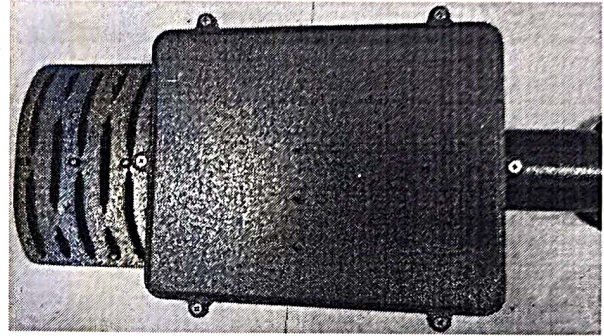
Job Code No. 25/06R/63 A1

Page 5 of 5

Test Report No. 2122A-2025-2026

Date : 31.07.2025

Photograph of Solar Inbuilt Street Light (under test)



12. Measurement Uncertainty
(At 95% C.L., for $k=2$, Approx.)
- i) $\pm 0.83\%$ for input Wattage
 - ii) $\pm 1.9\%$ for Luminous Flux
 - iii) $\pm 1.8\%$ for Correlated Color Temperature (CCT)

13. Remarks

- a) All the tests were conducted for the sample Solar Inbuilt Street Light as per Specification No. ANSI/IES LM-79-2019 and Customer's Test Request Letter. The observation, related only to the item tested, are tabulated above and the results apply to the sample as received.
- b) All the information / data as mentioned under "Issued To" & "Customer's Ref." and Sl. No. 1.(a), 1.(b), & 4 are provided by the Customer and the Laboratory does not assume any responsibility for the same.
- c) The Test Report shall not be reproduced, except in full, without the written approval of the Director, MSME-Testing Centre, Kolkata.

TESTED BY

(Signature)
31/07/2025

आशीष कुमार बिश्वास / ASHIS KUMAR BISWAS
सहायक निदेशक, (आई. ई. टी. ए. स.) / Assistant Director, (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
Micro, Small & Medium Enterprises Testing Centre
भारत सरकार / Govt. of India
999 व 992, बी. टी. रोड, कोलकाता-700108
111 & 112, B.T. Road, Kolkata-700108

APPROVED & AUTHORIZED BY

(Signature)

मनोज कुमार / MANOJ KUMAR
सहायक निदेशक, ग्रेड-1 (आई. ई. टी. ए. स.) / Assistant Director, Gr-I (IEDS)
सूक्ष्म, लघु और मध्यम उद्यम परीक्षण केन्द्र
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111 & 112, B.T. Road, Kolkata-700108

LIST OF EQUIPMENTS AND MACHINERY

ELECTRICAL DIVISION	CHEMICAL DIVISION
List of Machinery and Equipment's ◆ Digital Power Meter, Make : Yokogawa ◆ Meg-Ohm Decade Box, Make : Tinsley ◆ Digital Tachometer, Make : Lutron ◆ AC Voltage Current Standard Make : Yokogawa ◆ AC/DC HV Divider with KV Meter Make : Hipotronics ◆ Sound Level Meter Make : Lutron ◆ Standard Resistance Box Make : Tinsley ◆ Digital Clamp on Tester Make : Yokogawa ◆ Multi-Function Calibrator Make : Druck Limited ◆ Digital Temperature/Humidity Meter Make : Eurolab (Hygrometer) ◆ Cromameter Make : Konica Minolta ◆ True RMS Multimeter Make : Fluke ◆ Digital Insulation Tester Make : Motwane ◆ Digimatic Caliper Make : Mitutoya ◆ LMT Photo Current Meter with 100W/230V GLS Lamp ◆ Make : LMT, Germany ◆ HV Test set Make : Shruti Electronics ◆ 8½ Digit Reference Multimeter Make : Fluke ◆ Analog vane Anemometer Make : CASELLA ◆ Stop watch Make : RACER ◆ AC/DC High Voltage Probe Make : FLUKE ◆ Digital Multimeter Make : H.P. ◆ Multi Product calibrator, Make : FLUKE ◆ 2 Stage Voltage Ratio Transformer Make : Tinsley	List of Machinery and Equipment's ◆ Analytical Balance ◆ Atomic Absorption Spectrophotometer ◆ Strohlein Apparatus ◆ Air oven ◆ pH/Conductivity Meter ◆ Muffle furnace ◆ Electro-Analyzer ◆ Voltmeter ◆ Salt Spray Corrosion cabinet ◆ Hot Plate, 24"×18", 3KW ◆ Gloss Meter, 60° ◆ Weather o meter ◆ Ultrapure Water Purifier ◆ Centrifuge with speed Regulator ◆ Dean & Stark Apparatus ◆ Fortin's Barometer ◆ Digital Temperature Indicator with PRT ◆ Weight Box
METALLURGY DIVISION	MECHANICAL DIVISION
List of Machinery and Equipment's ◆ Universal Tensile Testing machine Cap : 1000Kn. (digital) ◆ Universal Tensile Testing machine Cap : 10Kn. (digital) ◆ Rockwell Hardness Testing Machine ◆ Brinell Hardness Testing Machine Cap : 3000Kg. ◆ Vickers cum Brinell Hardness Testing M/C. Modal : HPO-250. ◆ Shore Hardness Tester. (Scale A & D) ◆ Impact Testing M/c. (Izod and Charpy) Model: IT-30 ◆ Impact Testing Machine (Cap : 1.4kgf-m) ◆ Extensometer. (Digital) ◆ Torsion Testing Machine. Cap : up to 5mm. ◆ Wrapping Testing Machine. ◆ Metallurgical Microscope. Make - LEICA, Magnification up to 500 X ◆ X-Ray Radiography Machine. Make : Andrex ◆ Ultrasonic Testing Machine. Make : ECIL ◆ Conditioning Chamber ◆ Humidity Chamber.	List of Machinery and Equipment's ◆ Slip Gauge Comparator. ◆ Gauge Block Set. ◆ Set of Length bar. ◆ Vernier Height Gauge. (Digital) ◆ Scale and Tape Calibration Unit. ◆ Profile Projector. Magnification : 50X ◆ Dial Indicator Calibrator ◆ Pressure Calibrator. Cap : 700 Bar ◆ Dead Weight Tester. Cap : 1100 kg/cm² ◆ Torque Wrench Calibrator. ◆ Hydraulic Test Pump Unit. ◆ Compressor Unit. ◆ Flow Testing unit for Fire Hydrant. ◆ Drop Testing unit for barrel & Drum ◆ Performance Testing Unit for Fire ◆ Extinguishers. ◆ Cold bending Testing rig.



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402

ई-मेल/E-mail: registration@bis.gov.in

वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2021-6389/R-51001708

Dated: 2026-02-04
02:15:54

RENEWAL ID : 38311

Subject : RENEWAL OF LICENCE R-51001708 AS PER IS 16046 (Part 2) : 2018 / IEC 62133-2 : 2017

ANSH SOLAR
BC 257, SAMARPALLY KRISHNAPUR, KOLKATA, NORTH 24 PRAGANAS
WEST BENGAL, India, 700102



Dear Sir/Madam,

This has reference to your BIS Self Declaration of Conformity Registration No. R-51001708, held by you, for SEALED SECONDARY CELLS/BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES FOR USE IN PORTABLE APPLICATIONS PART 2 LITHIUM SYSTEMS which was valid upto **06-01-2026**.

As you are aware that renewal of your Registration was deferred due to the non-receipt of renewal application & fees. In view of receipt of renewal application & fees on 04-02-2026, Competent Authority of BIS has decided to renew your above referred Registration for 2 years i.e. from 07-01-2026 to 06-01-2028. It has also been decided to allow you to resume marking on your article as per marking guidelines of the above referred Registration with immediate effect.

It may please be noted that your registration shall *expire* at the end of the above mentioned period. You are, therefore, requested to send your renewal application along with fees for its renewal within three month before the expiry of the Registration.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



®

Soltech

SOLAR REVOLUTION

SOLAR PV MODULE



Ph- 9330174170

Email- soltech_energies@yahoo.com

ISO 9001:2015



Certificate of Registration

This Is To Certify That
Quality Management System
Of

SOLTECH ENERGIES PRIVATE LIMITED

BC- 257, SAMAR PALLY, KRISHNAPUR, KOLKATA, NORTH 24 PARGANAS,
WEST BENGAL - 700102, INDIA

Has been Assessed and Certified by QRS Certifications System Inc. Services
As Meeting the Requirement of:

ISO 9001:2015
(Quality Management System)

For The Following Scope of Activities:

**MANUFACTURER OF SOLAR STREET LIGHT, LITHIUM BATTERY PACKS,
SOLAR INVERTER, SOLAR POWER GENERATING SYSTEMS, SOLAR MODULE
AND SOLAR PUMPING SYSTEMS**

Date of Certification: 07-05-2024

2nd Surveillance Due: 07-04-2026

1st Surveillance Due: 07-04-2025

Certificate Expiry: 07-05-2027

(Subject To the Company Maintaining
Its System To The Required Standard)

Certificate Number: QRS/24QM138M

Validity of This Certificate can be verified at www.qrscerts.com



Anil Sinha

Authorized Signatory

QRS CERTIFICATIONS SYSTEM INC.

Validity of This Certificate Is Successful Annual Surveillance Audit To Be Done.

The Certificate is The Property of QRS Certifications System and shall be returned immediately on
Request Certifications System. Is accreditation by UK LAF Limited (www.uklaf.org.uk)

Suite 34, 79-68 Hatton Garden London WC 1B 5AA, (U.K), Company Reg. No. 124891552

Email: qrscertifications@gmail.com Website: www.qrscerts.com

CERTIFICATE OF COMPLIANCE

We hereby declare that the Technical file of Product Complied with the Requirement of Directives
Low voltage directive 2014/35/EU

Manufacturer

Company Name: **SOLTECH ENERGIES PRIVATE LIMITED**

Address: BC- 257, SAMAR PALLY, KRISHNAPUR, KOLKATA, NORTH24
PARGANAS, WEST BENGAL - 700102, INDIA

Products: SOLAR STREET LIGHT, LITHIUM BATTERY PACKS, SOLAR
INVERTER, SOLAR POWER GENERATING SYSTEMS, SOLAR
MODULE AND SOLAR PUMPING SYSTEMS

Applicable Standards: Machine Directive 2006/42/EC of Standard Requirements. The certification body has performed an audit of the above product quality system covering the Design, manufacture and final inspection of certified product. The quality system has been assessed, approved and is subject to continuous surveillance according Directive & Machine Directive 2006/42/EC and Directive – 2014/68/EU.

This Certificate Issued Under the Following Conditions:

1. It applies only to the quality system maintained in the manufacture of above reverenced models and it does not substitute the design or type examination procedures, if requested
2. The certificate remains valid until the manufacturing conditions or the quality system are 75/changed
3. The certificate validity is conditioned by positive results of surveillance audits
4. After fulfilling relevant EEC legislation, the manufacturer shall affix to each device, of the reverenced models The CE mark as shown above can be used under the responsibility of the manufacturer after completion of an EEC Declaration of conformity and compliance with all relevant EEC Directives. The statement is based on a single evaluation of one sample of above mentioned product.
5. It does not imply an assessment of the whole production.

Date of Certification: 07-05-2024

2nd Surveillance Due: 07-04-2026

1st Surveillance Due: 07-04-2025

Certificate Expiry: 07-05-2027

(Subject To the Company Maintaining
Its System To The Required Standard)

Certificate Number: QRS/24CE137M

Validity of This Certificate Can Be Verified at www.qrscerts.com




Authorized Signatory

QRS CERTIFICATIONS SYSTEM INC.

Validity of This Certificate Is Successful Annual Surveillance Audit To Be Done.

The Certificate is The Property of QRS Certifications System and shall be returned immediately on request Certifications System. Is accreditation by UK LAF Limited (www.uklaf.org.uk)

Suite 34, 79-68 Hatton Garden London WC 1B 5AA, (U.K) Company Reg.No. 124891552

Email: - qrscertifications@gmail.com, Website: - www.qrscerts.com



Our Ref: Registration/CRS 2024-1549/R-93030937

Date:08-May-2024

Subject : Licence Document

Manufacturing Unit :	RCRS INNOVATIONS PVT LTD CENTRAL ELECTRONICS LIMITED BUILDING, SITE 4 INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH,India-201005 surbhi9170@outlook.com 8851344539	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name:	Mono Crystalline Silicon Terrestrial Photovoltaic (PV) modules
IS NO :	IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004
Brand (As Declared by Manufacturer) :	EXEGI
Model :	[Brand -> EXEGI, Models -> EXG36CP100W, EXG36CP110W, EXG36CP115W, EXG36CP120W, EXG36CP125W, EXG36CP130W, EXG36CP135W, EXG36CP140W, EXG36CP145W, EXG36CP24W, EXG36CP25W, EXG36CP28W, EXG36CP30W, EXG36CP35W, EXG36CP37W, EXG36CP40W, EXG36CP45W, EXG36CP50W, EXG36CP55W, EXG36CP60W, EXG36CP65W, EXG36CP70W, EXG36CP74W, EXG36CP75W, EXG36CP80W, EXG36CP85W, EXG36CP90W, EXG36FP150W, EXG36FP155W, EXG36FP160W, EXG36FP165W, EXG36FP170W, EXG36FP175W, EXG48FP200W, EXG48FP205W, EXG48FP210W, EXG48FP215W, EXG48FP220W, EXG54FP250W, EXG60FP230W, EXG60FP240W, EXG60FP245W, EXG60FP250W, EXG60FP255W, EXG60FP260W, EXG60FP265W, EXG60FP270W, EXG66FP280W, EXG66FP285W, EXG66FP290W, EXG66FP295W, EXG66FP300W, EXG66FP305W, EXG66FP310W, EXG72FP302W, EXG72FP305W, EXG72FP310W, EXG72FP315W, EXG72FP320W, EXG72FP325W, EXG72FP330W, EXG72FP335W]
Factory Address :	CENTRAL ELECTRONICS LIMITED BUILDING, SITE 4 INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH,India-201005

- The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.
- The number assigned to this Licence is **R-93030937** which has been made operative from **08-May-2024** and is valid upto **07-May-2026** . The Licence Number should invariably be referred to in your future correspondence.
- The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.
- The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.
- The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.
- The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.
- Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.
- For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.
- The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Deepti Budiya)
Granting Authority
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.

Annex - 1

The guidelines for use of Standard Mark for Scheme-C are per 3(1) of BIS (Conformity Assessment) Regulations,2017 are given below:

- i) The monogram of the 'Standard Mark' consists of the pictorial representation, drawn in the exact style as indicated in the figure in the figure in Annexure I. Its photograpic reductin and enlargement is permitted.
- ii)The 'Standard Mark' can be displayed in single colour or multi-colour as per the details given below. The colour scheme for the Standard Mark to be used in multi colour shall be use as indicated below.
- iii) The licensee shall diplay the 'Standard Mark' on the article and/or the packaging, as the case may be, in a manner so as to be easily visible. It shall be legible, indelible and non-remobable. Further, the durability of marking shall be as per the provisions of the relevant Indian Standard, wherever applicable. The diplay of IS number, Registration number and words shall not be less than Arial forn size 6.
- iv) Any device with a integrated display sceen may present the Standard Mark electronically (e-labelling) in lieu of a physical presentation on the product.

Technical drawing of a stylized 'S' logo, labeled 'fig A' and 'fig B'. The logo is defined by a thick grey border and a white interior. The drawing includes numerous dimensions and labels for its components:

- Overall Dimensions:**
 - Total width: 240.49 mm (B1)
 - Total height: 175.48 mm (B2)
 - Top section height: 12.00 mm (B4)
 - Bottom section height: 8.24 mm (B5)
- Internal Dimensions and Labels:**
 - Top curve radius: 23.53 millimeters (D2)
 - Top curve thickness: 7.52 mm (D3)
 - Top curve width: 21.69 mm (H4)
 - Top curve height: 100.00 mm (H2)
 - Top curve width: 84.31 mm (L2)
 - Top curve width: 3.36 mm (L5)
 - Top curve width: 8.57 mm
 - Top curve width: 66.26 mm (B3)
 - Top curve width: 23.51 millimeters (D1)
 - Top curve width: 29.12 mm
 - Top curve width: 81.06 mm
 - Top curve width: 42.49 mm (D5)
 - Top curve width: 40.47 mm (L4)
 - Top curve width: 19.16 mm (D4)
 - Top curve width: 39.37 mm (H3)
 - Top curve width: 27.03 mm (D6)
 - Top curve width: 200.00 millimeters (H1)
 - Top curve width: 91.00 millimeters (L1)
 - Top curve width: 23.51 millimeters (D1)
 - Top curve width: 66.26 mm (B3)
 - Top curve width: 29.12 mm
 - Top curve width: 81.06 mm
 - Top curve width: 42.49 mm (D5)
 - Top curve width: 40.47 mm (L4)
 - Top curve width: 19.16 mm (D4)
 - Top curve width: 39.37 mm (H3)
 - Top curve width: 27.03 mm (D6)
 - Top curve width: 200.00 millimeters (H1)
 - Top curve width: 91.00 millimeters (L1)
- Labels and Callouts:**
 - fig A
 - fig B
 - L1, L2, L3, L4, L5
 - H1, H2, H3, H4, H5
 - B1, B2, B3, B4, B5
 - D1, D2, D3, D4, D5, D6

H1	200
H2	100
H3	39.3
H4	21.6
H5	17.7
L1	91.0
L2	84.3
L3	25.2
L4	40.4
L5	3.36
D1	23.5
D2	23.5
D3	7.52
D4	19.6
D5	42.4
D6	8.57
B1	240.4
B2	175.4
B3	66.2
B4	12.06
B5	8.24

- a) For printing purposes, colours shall be "Oriental Blue" and "Monopol Red" as per IS 1222:1992. 'Ink, duplicating for twin cylinder rotary machines (third revision)'
- b) For sign board purposes, colours shall be "French Blue" (No.166) Red" (No.537) as per IS 5:1994 "Colours for ready mixed paints and enamels (fourth revision)".

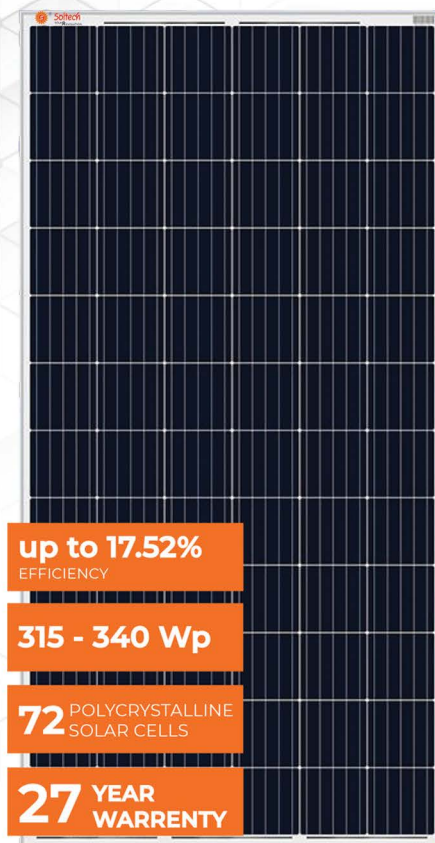
The font style and size used is Arial-85 pt.

IS -----



R - XXXXXXXXX

For details information on BIS, consult the e-BIS Portal ([www.manakonline. in](http://www.manakonline.in)).
Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery.



-  **HIGHER OUTPUT OF MODULE POWER** by reducing cell to module power loss
-  **Designed for very HIGH AREA EFFICIENCY** ideally suited for roof-top and ground-mounted applications
-  **EXTREMELY RELIABLE PRODUCT** suiting harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load
-  **MAXIMUM SYSTEM VOLTAGE INCREASED TO 1500VDC (IEC & UL)**, increased string length, low BOS cost

Quality & Safety

-  **27 years of linear power output warranty**
-  **Rigorous quality control meeting the highest international standards**
-  **100% EL tested to minimise micro crack**

Applications

-  **On-grid large scale utility systems**
-  **On-grid rooftop residential, commercial and industrial roof top installations**
-  **Off-grid residential systems**



TECHNICAL SPECIFICATION

SS315, SS320, SS325, SS330, SS335 - 24Volt 315 Watt to 335 Watt POLYCRYSTALLINE SOLAR PANEL

ELECTRICAL PARAMETERS

Peak Power P_{max} (Wp)	320	325	330	335	340
Maximum Voltage V_{mpp} (V)	37.7	37.8	38.0	38.1	38.2
Maximum Current I_{mpp} (A)	8.5	8.6	8.7	8.8	8.91
Open Circuit Voltage V_{oc} (V)	46.0	46.2	46.3	46.5	46.7
Short Circuit Current I_{sc} (A)	9.03	9.13	9.24	9.35	9.46

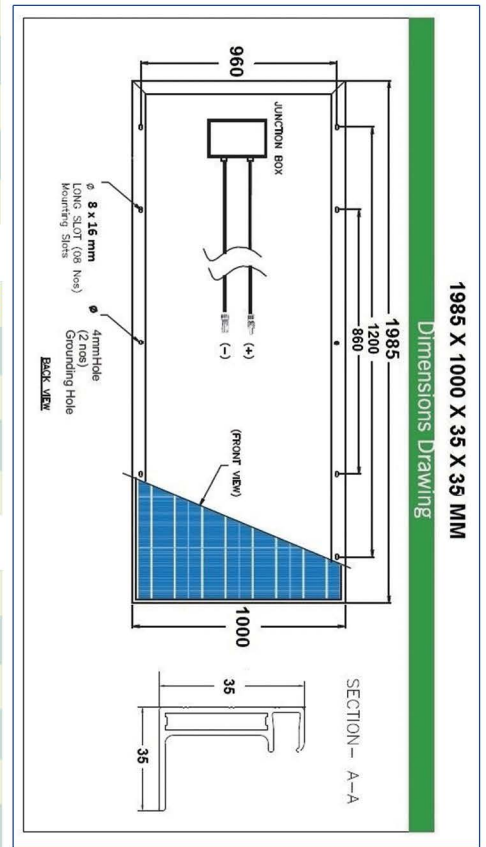
ELECTRICAL PARAMETERS AT NOCT

Power (W)	237.2	240.6	244.7	248.2	251.6
$V@P_{max}$ (V)	34.8	34.9	35.0	35.1	35.2
$I@P_{max}$ (A)	6.82	6.9	6.99	7.06	7.13
V_{oc} (V)	42.6	42.8	42.9	43.1	42.3
I_{sc} (A)	7.31	7.39	7.47	7.56	7.64

TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient of V_{oc}	-0.29% / °C
Temperature Coefficient of I_{sc}	0.057% / °C
Temperature Coefficient of P_{max}	-0.38% / °C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

MODULE FRAME ASSEMBLY



GENERAL DATA

Junction Box	IP68, Split Junction Box
Cable & Connectors	4 Sq mm, 1000 mm length with MC4 Connectors
Application Class	Class A (Safety Class II)
Glass	3.2 mm Tempered Glass, AR Coated
Cell	72 cells
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Test	5400 Pa (Snow Load), 2400 Pa (Wind Load)
Maximum Series Fuse Rating	15A

SPECIFICATION (MECHANICAL CHARACTERISTICS)

Dimension : Length * Width * Height	1985*1000*35 mm
Weight	22.4 kg
Junction Box	4 Rail 3 Diode (IP - 65)
Frame (type, material)	Aluminum Alloy
Front Glass	High Transmission, Low Iron, Tempered

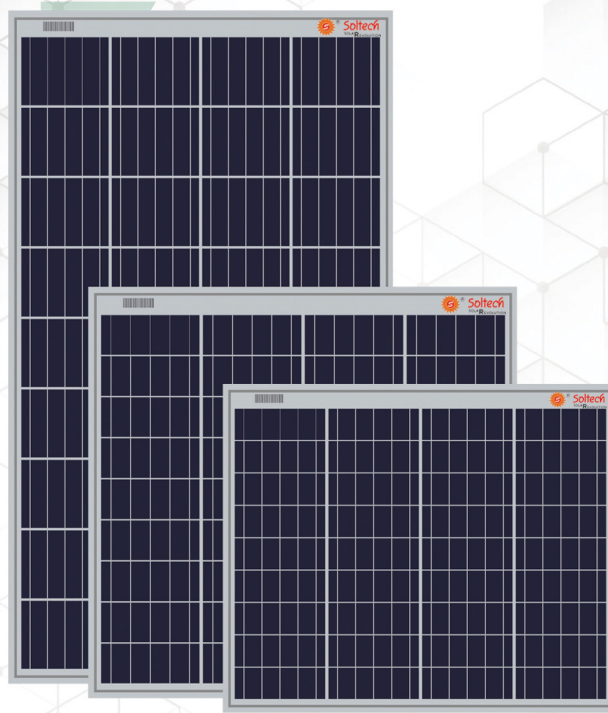
SOLTECH ENERGIES PVT LTD

BC-257, Samarpally, Krishnapur, Kolkata-102

soltech_energies@yahoo.com +91 8478813982

www.anshsolar.in

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**25 YEAR
WARRENTY**

**36
POLYCRYSTALLINE
SOLAR CELLS**

-  **HIGHER OUTPUT OF MODULE POWER** by reducing cell to module power loss
-  **EXTREMELY RELIABLE PRODUCT** suiting harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load
-  **Rigorous Quality Control** meeting the highest international standards.
-  **Positive Power Tolerance**
-  **100% EL Tested** to minimize micro crack
-  **25 Years of linear power output warranty**
-  **Designed for very HIGH AREA EFFICIENCY** ideally suited for all applications
-  **Excellent Low Light Performance**

APPLICATIONS

-  **Rural Electrification**
-  **Off grid solar system**
-  **Mobile solar system**
-  **Solar street lights & Solar Lantern application**



TECHNICAL SPECIFICATION

SS75 - 12 Volt 75 Watt

POLYCRYSTALLINE SOLAR PANEL

ELECTRICAL CHARACTERISTICS

Module Type	75 P
Max Power Watt (Peak)	Pm (W) 75 W
Power Tolerance	(%) 2
Max System Voltage	(VDC) 1000
Max Power Voltage	Vmp (V) 18.18
Max Power Current	Imp (A) 4.13
Open Circuit Voltage	Voc (V) 21.6
Short Circuit Current	Isc (A) 4.29

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000W/m2
Tc	25

SPECIFICATION (MECHANICAL CHARACTERISTICS)

Dimensionn : Length * Width * Height	775*665*30 mm
Weight	5.1 kg
Junction Box	3 Rail 2 Diode (IP - 65)
Frame (type, material)	Aluminum Alloy
Front glass	High Transmission, Low Iron, Tempered

ABSOLUTE RATINGS

Dielectrics Insulation Voltage	3000 max VDC
Operating Tempeature	negative 45°C to 85°C
Storage Temperature	negative 45°C to 85°C

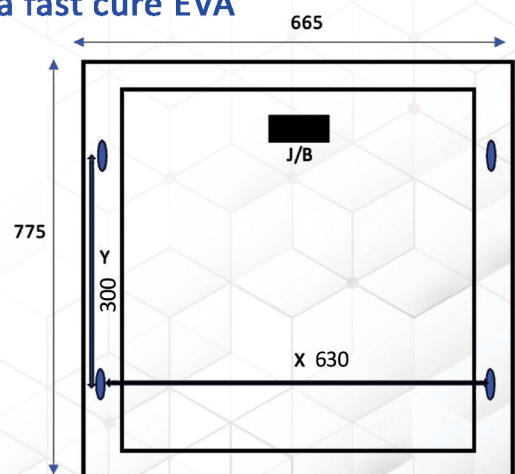
CONSTRUCTIONAL CHARACTERISTICS

1. Solar PV modules are constructed with toughened, low iron and textured high light transmission glass with anti-reflective coating (ARC)
2. Multi-layered tedlar-based back sheet and ultra fast cure EVA
3. 15 micron anodised alumium frame
4. Pre-drilled frame for wasy mounting
5. IP67 rated junction box

MODULE FRAME ASSEMBLY

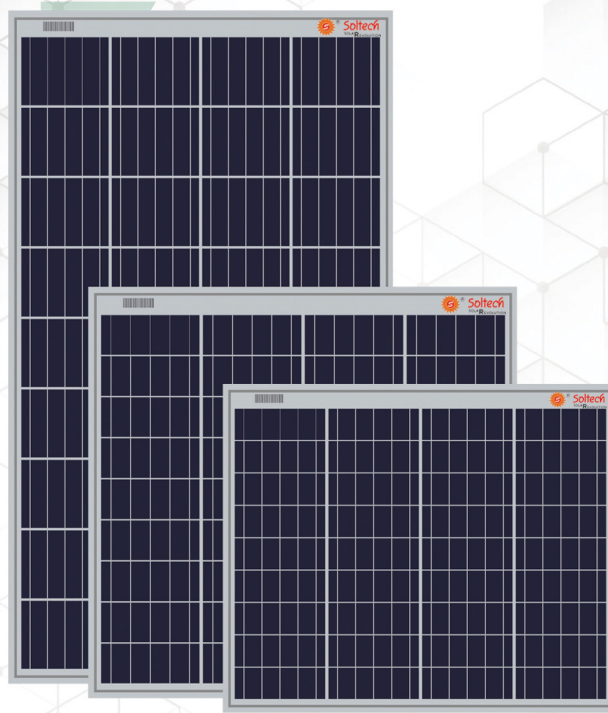
Module Wattage	75Watt12V
Module Size (in mm)	665*775*30
Slot Size	14*8mm (Oval)
Y (mm)	300
X (mm)	630

For Fame Size : 665x775



SOLTECH ENERGIES PVT LTD

BC-257, Samarpally, Krishnapur, Kolkata-102
 soltech_energies@yahoo.com +91 8478813982
 www.anshsolar.in
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**25 YEAR
WARRENTY**

**36
POLYCRYSTALLINE
SOLAR CELLS**

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-  **Designed for very HIGH AREA EFFICIENCY** ideally suited for all applications
-  **Excellent Low Light Performance**

APPLICATIONS

-  **Rural Electrification**
-  **Off grid solar system**
-  **Mobile solar system**
-  **Solar street lights & Solar Lantern application**



TECHNICAL SPECIFICATION

SS100 - 12Volt 100 Watt

POLYCRYSTALLINE SOLAR PANEL

ELECTRICAL CHARACTERISTICS

Module Type	100 P
Max Power Watt (Peak)	Pm (W) 100 W
Power Tolerance	(%) 2
Max System Voltage	(VDC) 1000
Max Power Voltage	Vmp (V) 18.87
Max Power Current	Imp (A) 5.32
Open Circuit Voltage	Voc (V) 21.6
Short Circuit Current	Isc (A) 5.78

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000W/m2
Tc	25

SPECIFICATION (MECHANICAL CHARACTERISTICS)

Dimensionn : Length * Width * Height	1010*665*30 mm
Weight	7.4 kg
Junction Box	3 Rail 2 Diode (IP - 65)
Frame (type, material)	Aluminum Alloy
Front glass	High Transmission, Low Iron, Tempered

ABSOLUTE RATINGS

Dielectrics Insulation Voltage	3000 max VDC
Operating Tempeature	negative 45°C to 85°C
Storage Temperature	negative 45°C to 85°C

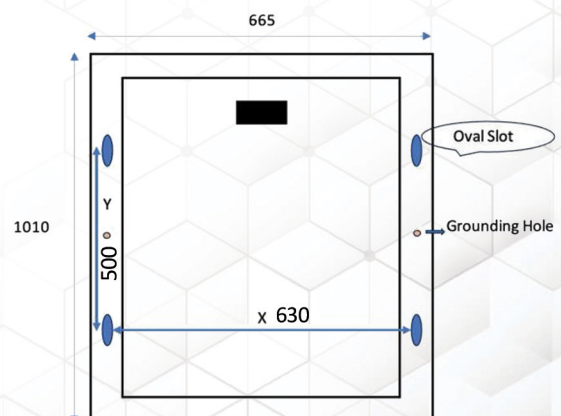
CONSTRUCTIONAL CHARACTERISTICS

1. Solar PV modules are constructed with toughened, low iron and textured high light transmission glass with anti-reflective coating (ARC)
2. Multi-layered tedlar-based back sheet and ultra fast cure EVA
3. 15 micron anodised alumium frame
4. Pre-drilled frame for wasy mounting
5. IP67 rated junction box

MODULE FRAME ASSEMBLY

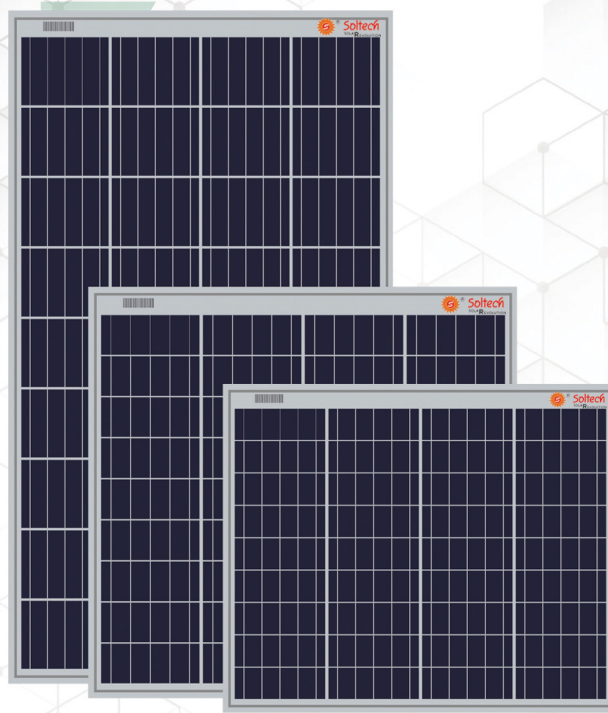
Module Wattage	100Watt12V
Module Size (in mm)	1010*665*30
Slot Size	14*8mm (Oval)
Y (mm)	500
X (mm)	630

For Fame Size : 665x775



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**25 YEAR
WARRENTY**

**36
POLYCRYSTALLINE
SOLAR CELLS**

-  **HIGHER OUTPUT OF MODULE POWER** by reducing cell to module power loss
-  **EXTREMELY RELIABLE PRODUCT** suiting harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load
-  **Rigorous Quality Control** meeting the highest international standards.
-  **Positive Power Tolerance**
-  **100% EL Tested** to minimize micro crack
-  **25 Years of linear power output warranty**
-  **Designed for very HIGH AREA EFFICIENCY** ideally suited for all applications
-  **Excellent Low Light Performance**

APPLICATIONS

-  **Rural Electrification**
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-  **Mobile solar system**
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TECHNICAL SPECIFICATION

SS125 - 12Volt 125 Watt

POLYCRYSTALLINE SOLAR PANEL

ELECTRICAL CHARACTERISTICS

Module Type	125 P
Max Power Watt (Peak)	Pm (W) 125 W
Power Tolerance	(%) 2
Max System Voltage	(VDC) 1000
Max Power Voltage	Vmp (V) 18.75
Max Power Current	Imp (A) 6.72
Open Circuit Voltage	Voc (V) 21.6
Short Circuit Current	Isc (A) 7.25

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000W/m2
Tc	25

SPECIFICATION (MECHANICAL CHARACTERISTICS)

Dimensionn : Length * Width * Height	1145*665*30 mm
Weight	8.1 kg
Junction Box	3 Rail 2 Diode (IP - 65)
Frame (type, material)	Aluminum Alloy
Front glass	High Transmission, Low Iron, Tempered

ABSOLUTE RATINGS

Dielectrics Insulation Voltage	3000 max VDC
Operating Tempeature	negative 45°C to 85°C
Storage Temperature	negative 45°C to 85°C

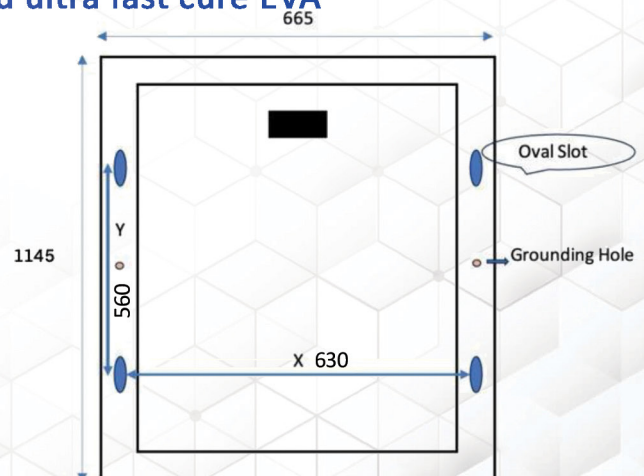
CONSTRUCTIONAL CHARACTERISTICS

1. Solar PV modules are constructed with toughened, low iron and textured high light transmission glass with anti-reflective coating (ARC)
2. Multi-layered tedlar-based back sheet and ultra fast cure EVA
3. 15 micron anodised alumium frame
4. Pre-drilled frame for wasy mounting
5. IP67 rated junction box

MODULE FRAME ASSEMBLY

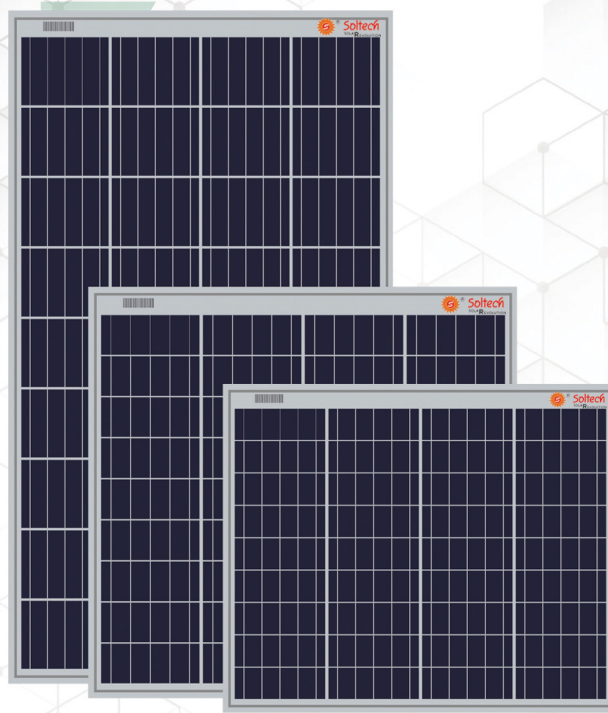
Module Wattage	125Watt12V
Module Size (in mm)	1145*665*30
Slot Size	14*8mm (Oval)
Y (mm)	560
X (mm)	630

For Fame Size : 665x775



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APPLICATIONS

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-  **Mobile solar system**
-  **Solar street lights & Solar Lantern application**



TECHNICAL SPECIFICATION

SS165 - 12Volt 165 Watt

POLYCRYSTALLINE SOLAR PANEL

ELECTRICAL CHARACTERISTICS

Module Type	165 P
Max Power Watt (Peak)	Pm (W) 165 W
Power Tolerance	(%) 2
Max System Voltage	(VDC) 1000
Max Power Voltage	Vmp (V) 19.22
Max Power Current	Imp (A) 8.6
Open Circuit Voltage	Voc (V) 21.6
Short Circuit Current	Isc (A) 9.15

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000W/m2
Tc	25

SPECIFICATION (MECHANICAL CHARACTERISTICS)

Dimensionn : Length * Width * Height	1485*665*30 mm
Weight	10.6 kg
Junction Box	3 Rail 2 Diode (IP - 65)
Frame (type, material)	Aluminum Alloy
Front glass	High Transmission, Low Iron, Tempered

ABSOLUTE RATINGS

Dielectrics Insulation Voltage	3000 max VDC
Operating Tempeature	negative 45°C to 85°C
Storage Temperature	negative 45°C to 85°C

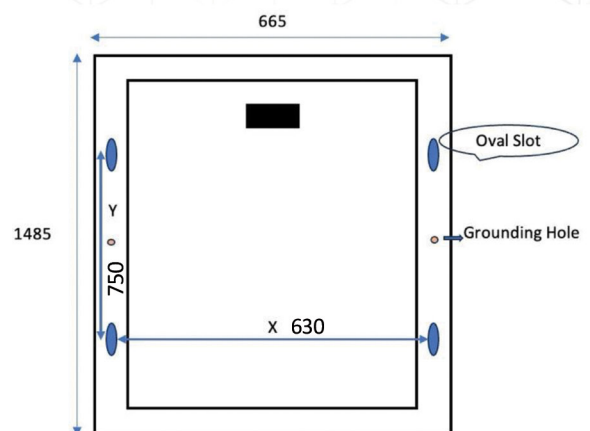
CONSTRUCTIONAL CHARACTERISTICS

1. Solar PV modules are constructed with toughened, low iron and textured high light transmission glass with anti-reflective coating (ARC)
2. Multi-layered tedlar-based back sheet and ultra fast cure EVA
3. 15 micron anodised alumium frame
4. Pre-drilled frame for wasy mounting
5. IP67 rated junction box

MODULE FRAME ASSEMBLY

Module Wattage	165Watt12V
Module Size (in mm)	1485*665
Slot Size	14*8mm (Oval)
Y (mm)	750
X (mm)	630

For Fame Size : 665x775



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