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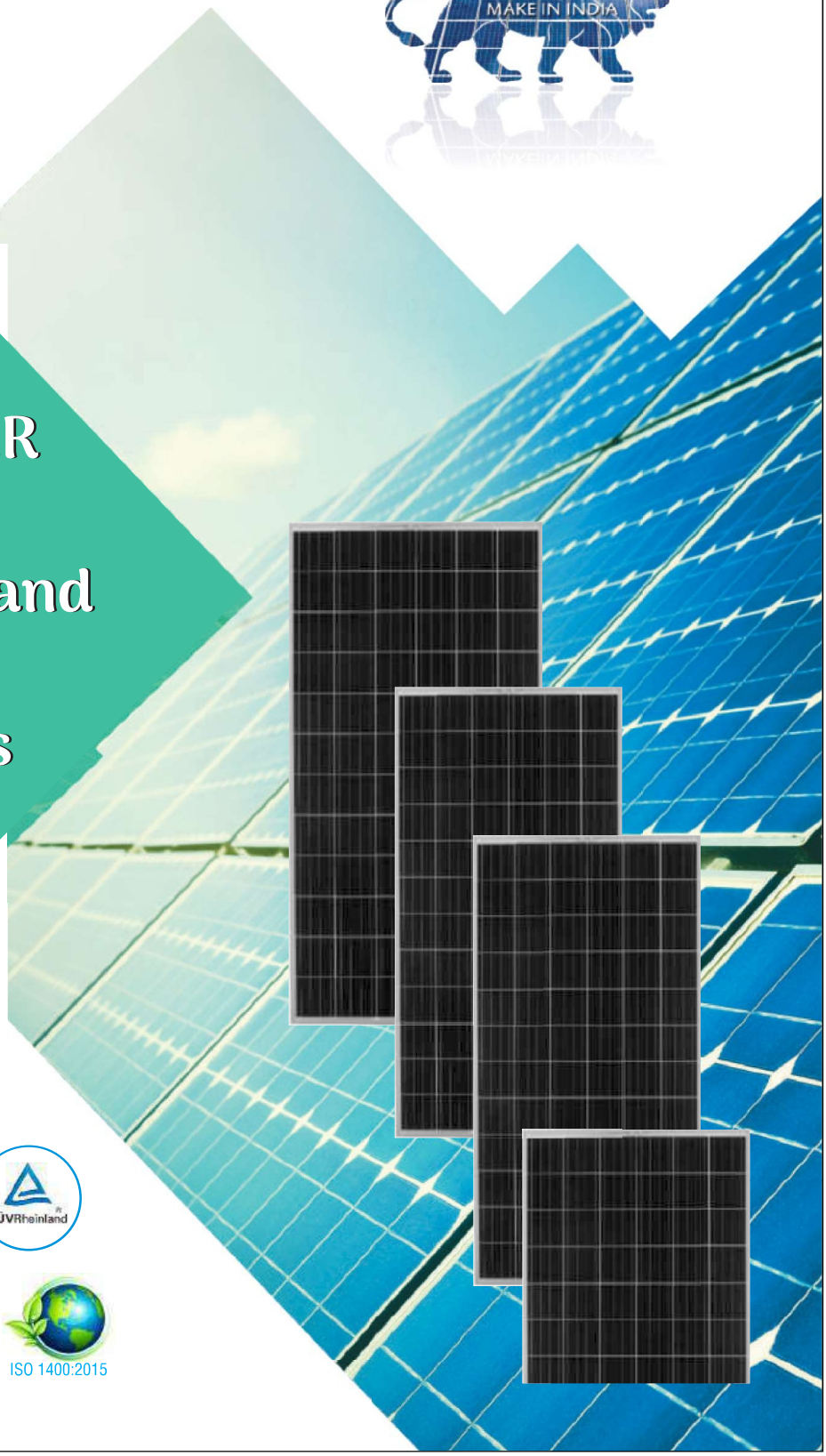
Himalayan Solar

Power Solution for a Shining Future

MAKE IN INDIA

MANUFACTURER OF Solar PV Module and Other Solar Products

HimSol-72/60/48/36



TÜVRheinland CERTIFIED

IEC

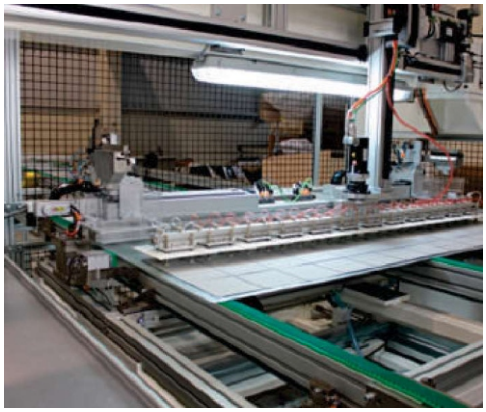
TÜVRheinland

Govt. of India MNRE APPROVED CHANNEL PARTNER

ISO 9001 CERTIFIED

CE

ISO 1400:2015



WORLD CLASS MANUFACTURING FACILITY

- Ultra-modern, fully automatic, State-or -the-art, advanced robotics, world class Tier 1 European Solar PV module manufacturing facility of 100 MW per annum installed capacity.
- Solar modules in the range of 10Wp to 650Wp using world·s best premier quality raw materials
- Solar Modules are BIS certified for IS 14286/IEC61215, IS/IEC61730 (PART-1 & 2) From NABL/MNRE Approved Laboratory and PID Certified (IECTS62804-1:2015-08) from TUV Rheinland (India) Private Limited
- Automatic Line includes Stringer, Auto Lay Up Gantry, EL Detector, laminator, Trimming Machine, Framing machine, Hi Pot Tester, AAA+ Sun Simulator etc. from Mondragon Assembly, Spain
- In-Process Quality Assurance using inline electolunines-cence (EL) Test, hot-spot Test, Low irradiance Test, Dry Hipot Test, Wet Leakage Current Test, Bypass Diode Thermal Test, STC & NOCT Performance Test etc.

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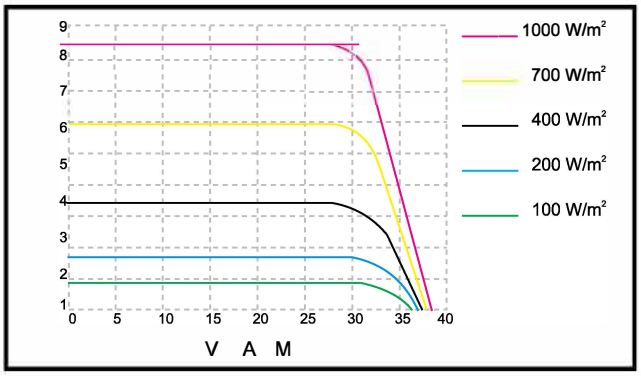
Technical Specifications

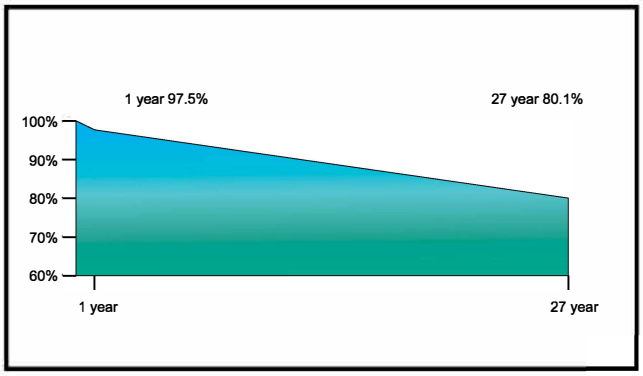
Electrical charterstles (STC) WP	No of cell	Cell wattage (wp)	Short Circuit Current (Isc) A	Operating voltage (Vmp) V	Operating current (Imp) A	Open Circuit voltage (Voc) V	Module efficlency %	Maximum series fuse rating	Power Tolerance (+)
330	72	4.67	8.99	39.384	8.54	46.44	17.30	30	5
325	72	4.57	8.92	38.952	8.45	46.08	16.94	30	5
320	72	4.52	8.89	38.736	8.4	45.936	16.78	30	5
315	72	4.47	8.85	38.52	8.36	45.72	16.57	30	5
310	72	4.42	8.81	38.304	8.31	45.504	16.41	30	5
275	60	4.67	8.99	32.82	8.54	38.7	17.22	20	5
270	60	4.57	8.92	32.46	8.45	38.4	16.84	20	5
265	60	4.52	8.89	32.28	8.4	38.28	16.66	20	5
260	60	4.42	8.81	31.92	8.31	37.92	16.28	20	5
250	60	4.42	8.81	31.92	8.31	37.92	16.28	20	5
220	48	4.67	8.99	26.256	8.54	30.96	17.01	20	5
210	48	4.47	8.85	25.68	8.36	30.48	16.32	20	5
200	48	4.42	8.81	25.536	8.31	30.336	16.17	20	5
160	36	4.52	8.89	19.368	8.4	22.968	16.28	20	5
150	36	4.42	8.81	19.152	8.31	22.752	15.87	20	5
125	36	4.42	7.025	19.152	6.62	22.752	15.45	20	5
100	36	4.42	5.84	19.152	5.51	22.752	15.55	20	5

Operating Temperature:	minus '40 to plus '80
Maximum system voltage:	1000v DC
Under Standard Test Condition (STC) of irradiance of 1000 w/m2, spectrum AM 1.5 and cell temperature of 25'c	
Cell type:	Polycrystalline

Typical IV Curve



Performance Warranty



Warranty

- **10 years for product defects in materials and workmanship**
- **27 years linear power output warranty: 10 years at 90% of the minimal rated power output, 27 years at 80% of the minimal rated power output**

Applications

- **On-grid large scale utility systems**
- **On-grid rooftop residential and commercial systems**
- **Off-grid residential systems**

4. Using Guide :

For Solar Panel

4.1 Install the solar panel in the roof or exposed place, where with strongest sunshine, then fix it. (Note : Make sure the solar panel is far away from any obstacle or any shadow all the day time : Please let the solar panel directly face to the strongest sunshine in the daytime.)

4.2 Plug the DC tip of the solar panel cable into the port "solar panel" on the battery system and keep it always be connected for solar charging. (The indicator light on battery system will be red when charging, and will turn green after full charged.)

Battery :

4.3 Put the battery system in the room (Note : Make sure the battery system is far away from direct sunshine or fire or water or high humid and make sure the battery system is ventilated)

Integrated controller has the following safety features :

- Battery overcharge protection
- Battery over-discharge protection
- Battery reverse polarity protection
- Battery low voltage warning
- PV reverse polarity protection
- Anti-reverse charging protection
- USB overload protection
- USB short circuit protection

Lighting :

4.4 Fix the Luminary cable and Luminary holders where need the light, and then screw the LED Luminary into the lamp holder.

4.5 Plug the DC tip of the lamp cables into the port "light" on the battery system

4.6 Turn on the "switch" on the battery system and turn on the "switch" on the lamp cables, and then the LED lamps will light up

Note : Please full charge the battery system first before using.)

For Mobile Charging :

4.7 Turn on the "switch" on the battery system and plug USB cable into the "USB" port on battery system. Choose the correct tip for your mobile and connect in to the other DC end of USB cable.

FRONT HOME LIGHT DESCRIPTION

1. On/Off Switch for System
2. DC Input Socket for Solar PV Modules
3. LED Indication for PV Connector
4. LED Indication for Battery Charging
5. LED Indication for Low Battery
6. LED Indication for Power On.
7. DC Output Socket for DC LED Luminary-1
8. DC Output Socket for DC LED Luminary-2
9. USB Port For Charging Mobile
10. On / Off Switch for Load.

MOBILE LED BULB

क्या करें।

- महीने में एक बार सोलर पैनल को साफ अवश्य करें।
- आवश्यकता न होने पर सिस्टम को बंद कर दें। ताकि सिस्टम की बैटरी ज्यादा खर्च ना हो।
- याद रखें की सोलर पैनल पर पेड़ या किसी इमारत की छाया न पडें।
- सोलर पैनल से बैटरी को कम से कम 8–10 घण्टे प्रतिदिन चार्ज करें।
- यदि आप लम्बे समय तक सिस्टम का उपयोग नही करते हैं तो बैटरी को फुल चार्ज करके ही उपयोग करे।

Do

- Wash Your Panel once a month.
- Turn off the switch on the system if you don't use light USB charging Mobiles otherwise it will have ths self power consumption.
- Make sure the solar panel are never shaded by trees & building.
- Please charge the Battery by solar panel 8-10 hours in a day.
- If you don't use the system for long time, please full charge it first before use.

क्या ना करें।

- सिस्टम को ज्वीनशील पदार्थो से दूर रखे।
- सिस्टम को न फेकें और न ही सिस्टम को गिरने दे।
- सिस्टम का कोई भी हिस्सा बारिश में खुला न छोड़े।
- सिस्टम को खोलकर बाँधने की कोशिश न करें।
- सिस्टम को **12V DC** पर ही चलाएँ किसी भी हिस्से को **AC 110V/220V** से सीधा न जोडें।
- सिस्टम को तेज हवा के समय पैनल को सावधानी पूर्वक रखें।
- सोलर पैनल की केबल को मजबुती से न खीचें। जिसके कारण जोड ढीले न हो।

Do Not

- Do not place the system near explosive or flammable obects
- Do not drastic crash or throw the solar panel.
- Keep the battery system away from water.
- Do not disassembles the system
- The LED Lamp is DC 12V, Can't be use with AC 110/220V, Otherwise it will break.
- Do not touch the system with wet hand
- Do not install or handle the modules when they are wet or during periods of light wind.
- Do not drag the cable of the solar panel strongly or it will come to poor contact.

SOLAR MODULE MANUFACTURER

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