

100 Wp SPV MODULE

Electrical Characteristics*		
Nominal Maximum Power (P _m) in Watts	100	
Power tolerance	0 / + 5 W	
Open Circuit Voltage (Voc) in Volts	21.97	
Short Circuit Current (I _{sc}) in Amps	6.07	
Voltage at Maximum Power (V _{mp}) in Volts	17.46	
Current at Maximum Power (I _{mp}) in Amps	5.73	
Maximum System Voltage in Volts	1000	
Module Efficiency (%)	12.88	
Maximum Series Fuse Rating (A)	15	

*Under Standard Test Conditions (STC) of 1000 W/m² irradiance,
AM 1.5 spectrum and 25°C cell temperature.

- Positive tolerance Modules
- Excellent generation performance with reasonable cost
- Undergoes rigorous quality control and in-house testing
- 100% Electroluminescence test to ensure error free Modules
- Heavy duty anodized Aluminum frames with predrilled holes for quick installation
- Salt mist corrosion resistance and Ammonia corrosion resistance
- Long lasting and high efficiency modules
- > Withstands hail, snow and ice storms

Mechanical Characteristics	
Length x Width x Thickness (L x W x T) - mm	1150 x 675 x 35
Mounting Holes Pitch (Y) – mm	575
Mounting Holes Pitch (X) – mm	633
Weight (kg)	10.15
Solar Cells per Module (Units) / Arrangement	36 / (9 x 4)
Solar Cell Type	Multi Crystalline Silicon
Front Cover (Material / Thickness)	Tempered & Low Iron Glass / 3.2mm / 4mm
Encapsulate	Ethylene Vinyl Acetate
Frame Material	Anodized Aluminum Alloy
Junction Box (Material / Type)	Weatherproof PPO / IP67 enclosure with bypass diodes
Connector (Protection degree / Type)	IP67 rated / MC4 compatible
Cable cross-section	4 mm ²

Warranty

- 10 years Limited Product Warranty
- 25 years Limited Power output Warranty:
 - O Minimum 90% at the end of 10 years
 - o Minimum 80% at the end of 25 years

Certifications

















IEC 61215

IEC 61730-1 & 2

IEC 61701

IEC 62716

ISO 9001:2008

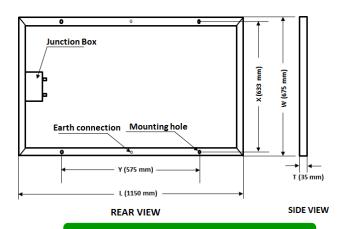
ISO 14001:2004

OHSAS 18001:2007



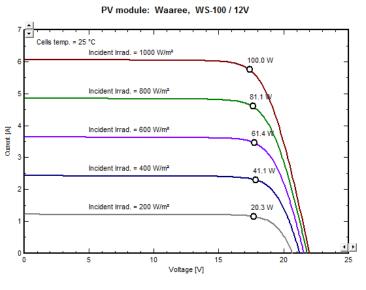
Design specifications

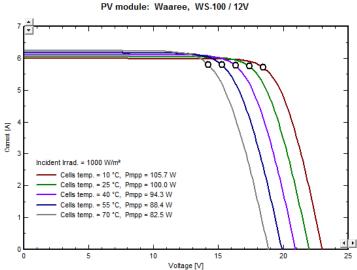
Thermal Characteristics		
Temperature coefficient of Current (I _{sc}), α (%/°C)	0.0681	
Temperature coefficient of Voltage (V_{oc}), ß (%/°C)	-0.2941	
Temperature coefficient of Power (P _m), γ (%/°C)	-0.3845	
NOCT (°C)	46 ± 2	
Operating temperature range (°C)	-40 to 85	



I-V Curve Variation with Irradiance

I-V Curve Variation with Temperature





WAAREE is one of India's leading multi-technology companies, headquartered at Mumbai. Founded in About Waaree:

1989, WAAREE successfully developed cutting edge technologies to become one of the most preferred brands in the field of Instrumentation. The company has transformed itself from a single business into a multi-technology organization, diversifying into exciting areas of Solar Energy, Industrial Valves, Petroleum Equipment's and Process control Instrumentation. WAAREE

has a presence in over 68 countries, serviced through its 20 sales offices in India & Dubai, and more than 105 global channel partners. WAAREE has a huge list of satisfied customers over the years. WAAREE is committed to supply the best quality products & technology to its customers. WAAREE's products are manufactured at its state-of-the-art manufacturing facilities and is committed to excel in providing the society with world class quality products.

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O The specifications in this datasheet are subject to change without prior notice.