

W2900 Series High Efficiency PV Module



Mono-crystalline 72 Cell 5BB PV Module



High Module
Conversion Efficiency



Easy Installation &
Handling for Various
Applications



ISO 9001:2015
ISO 15001:2015
OHSAS 18001:2017



Mechanical Load
Capability of up to
113 psf (5400 Pa)



Premium silicon wafers
PID free PV Cells, EVA
encapsulant, low-iron
tempered glass eliminate
potential induced
degradation, ensuring a
long performing module



With up to 345Wp with
17.74% module Efficiency
Highest performing module of
its kind on the market



Mornings, evenings even on
cloudy days, webel module
perform higher giving the user
an improved performance



Our modules lower the
oxidation process when the
cells are first exposed to
light, thereby lowering the
initial light induced
degradation



320-345 Wp

72 Cell

5BB

PRODUCT FEATURES

- 72 cell configuration with wattage ranging from 320 to 345 watts
- ≥ 76.0 fill factor for improved energy conversion efficiency
- Cells sorted by power and current to minimize mismatch losses in the field
- Electroluminescence tested for micro-cracks
- 25 Years warranty of electrical performance
- Cell Efficiency ≥ 18.5
- Torsion and corrosion resistant with anodized aluminium frame
- Unique back sheet design for high resistance to moisture ingress
- Enhanced reliability through use of distinctive encapsulant and back sheet
- Ultra-soft interconnect with stress relief for enhanced reliability
- Calibration modules for output measurement regularly tested at TUV

CERTIFICATIONS



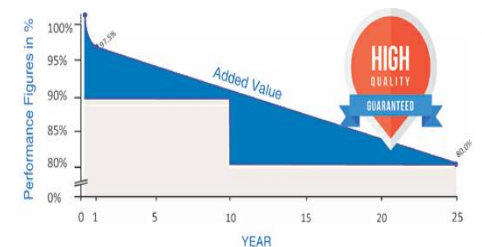
Certified to IEC 61730, IEC 61215, IEC 61701, UL1703 standards

WARRANTY



About Websol Energy

India's Oldest and Leading
Manufacturer from last 3 decades



Highest standards of quality and
management (ISO 9001, 14001 and
OHSAS 18001)

Electrical Specification (STC)

Power Class Type	320	325	330	335	340	345
Power Tolerance	0~+5	0~+5	0~+5	0~+5	0~+5	0~+5
Module Efficiency (%)	16.49	16.75	17.01	17.26	17.52	17.74
Voltage at Maximum Power V_{MPP} (V)	37.4	37.7	37.9	38.4	38.6	38.8
Current at Maximum Power I_{MPP} (A)	8.56	8.63	8.72	8.73	8.81	8.85
Open-circuit voltage V_{oc} (V)	45.8	45.9	46.3	46.4	46.5	46.5
Short-circuit current I_{sc} (A)	9.15	9.18	9.20	9.27	9.33	9.38

Temperature coefficient

Nominal Operating Cell Temperature	45 ± 2 °C
Module efficiency	- 0.07 ± 0.01
Coefficient of Power (Pmax)	-0.40% / °C
Coefficient of Voltage (V_{oc})	-0.35% / °C
Coefficient of Current (I_{sc})	0.05% / °C

Operating conditions

Maximum system voltage (UL & IEC)	1000
Maximum series fuse rating (A)	20
Limiting reverse current (A)	20
Operating temperature range (°C)	-40 and +85
Maximum static load (snow or wind)	113 psf (5400 Pa)

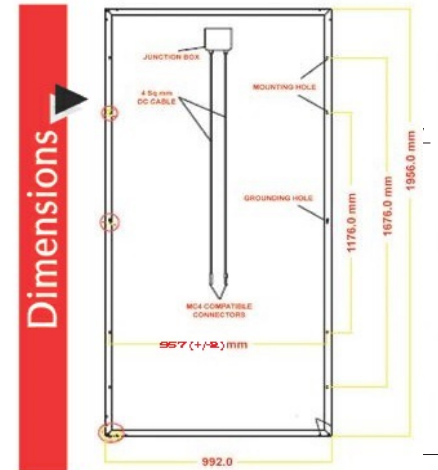
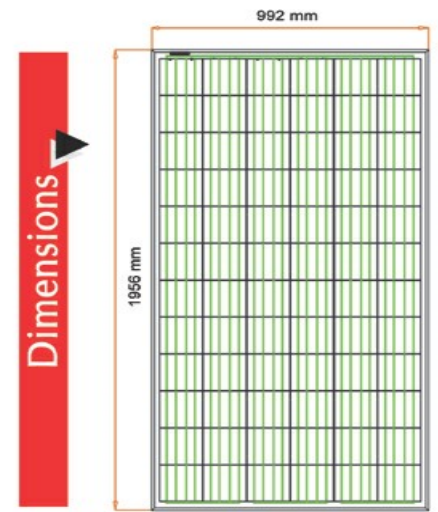
Module Mechanical characteristics

Module dimensions L x W x H (mm)	1956 x 992 x 35
Module weight (approx.) Kg	21
Number of cells & size	72 cells & 156.75mm (5BB)
Frame material	Anodized aluminium frame with twin wall profile
Glass	3.2mm ARC, Low iron, Toughened & Tempered High transmittance
Junction box	IP67 rated junction box with 3bypass diodes
Cable connector	MC4/MC4 compatible (4mm ²)

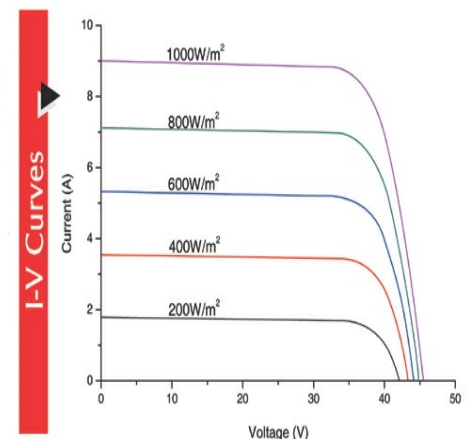
Packing & Shipping details

Number of modules per Pallet	28
Number of pallets per 40ft container	22
Gross Weight (approx.) of Box (kg)	660
Box dimensions (LxWxH)(mm)	2025x1050x1150

Module Technical Drawing in mm



IV curve at multiple irradiance



* Irradiance of 1000W/m², spectrum AM of 1.5 and cell temperature of 25°C

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