

## W2300 Series High Efficiency PV Module



### Mono-crystalline 60 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



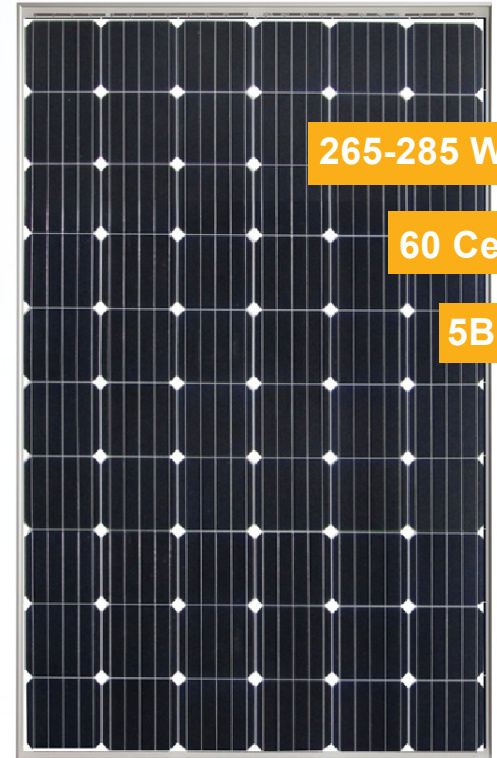
With up to 285Wp with  
17.52% module Efficiency  
Highest performing module of  
its kind on the market



Mornings, evenings even on  
cloudy days, websol 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



265-285 Wp

60 Cell

5BB

### PRODUCT FEATURES

- 60 cell configuration with wattage ranging from 265 to 285 watts
- $\geq 76.0$  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  $\geq 19.5$
- 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



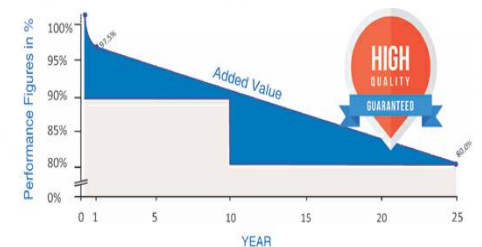
Certified to IEC 61730, IEC 61215, IEC 61701, UL1703 standards

### 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	265	270	275	280	285
Power Tolerance	0~+5	0~+5	0~+5	0~+5	0~+5
Module Efficiency (%)	16.29	16.60	16.90	17.21	17.52
Voltage at Maximum Power $V_{MPP}$ (V)	31.02	31.42	31.70	32.0	32.25
Current at Maximum Power $I_{MPP}$ (A)	8.56	8.61	8.68	8.76	8.85
Open-circuit voltage $V_{oc}$ (V)	38.2	38.3	38.5	38.7	38.8
Short-circuit current $I_{sc}$ (A)	9.15	9.18	9.22	9.27	9.33

### Temperature coefficient

Nominal Operating Cell Temperature	$45 \pm 2$ °C
Module efficiency	- 0.07 $\pm$ 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)

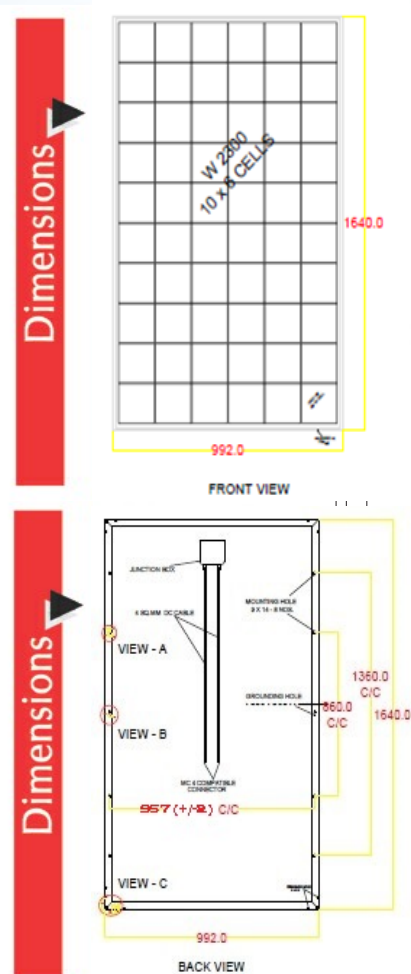
### Module Mechanical characteristics

Module dimensions L x W x H (mm)	1640x992x35
Module weight (approx.) Kg	19
Number of cells & size	60 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	IP65/ IP67 rated junction box with 3bypass diodes
Cable connector	MC4/MC4 compatible (4mm <sup>2</sup> )

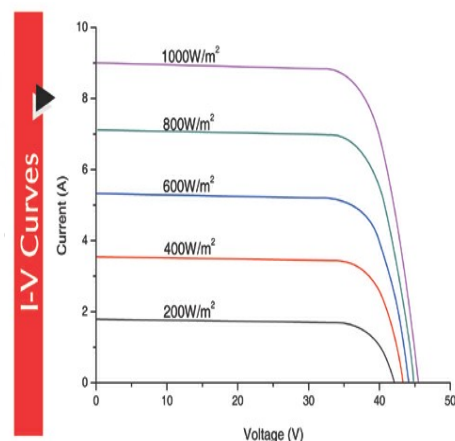
### Packing & Shipping details

Number of modules per Pallet	28
Number of pallets per 40ft container	26
Gross Weight (approx.) of Box (kg)	570
Box dimensions (LxWxH)(mm)	1665x1050x1150

### Module Technical Drawing in mm



### IV curve at multiple irradiance



\* Irradiance of 1000W/m<sup>2</sup>, spectrum AM of 1.5 and cell temperature of 25°C

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