

## MOREPOWER

### +3% Positive Tolerance

Positive tolerance on label rating power provides higher kWh for money invested.



Low iron, anti reflective coated glass gives 2% Energy gain.



Matching gives 2% additional power gain measured at STC conditions.



Independently verified by Photon and Öko-Test as amongst the best kWh/kWp output worldwide.



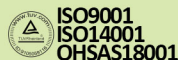
EL screening provides defect free modules.



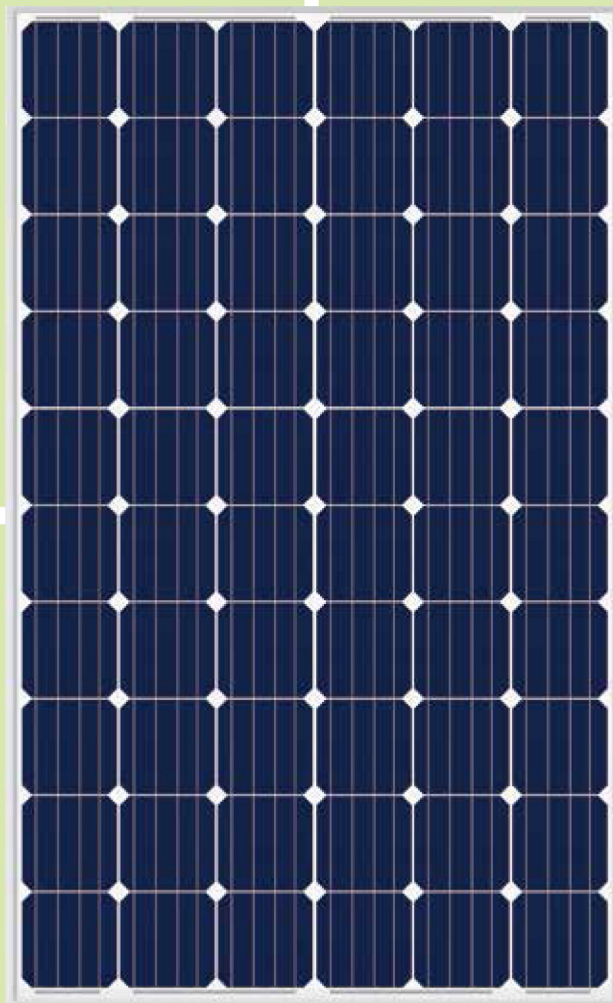
Long life in marine and high pollution environments.



Pre-approved with financial institutions and rapid capability ensures customers' cost of project is reduced.



Audited controls for high value consistency.



## FOR LONGER

### True Linear Warranty 25 years

Highest power warranty coverage available on a linear basis.

### Workmanship Warranty 12 years

12 years global workmanship warranty.

### Strength 5400Pa

Industry leading snow loading capacity.

### Degradation Resistance

Superior resistance to PID.

### Low Carbon Footprint

One of the lowest carbon footprints over 100 years life cycle.

### Green Credentials

Fully committed to recycling during production and end of product life, a dedicated member of PV cycle.

### Eco Friendly Packaging

Friendly materials choice with high density packing.

### ISO14001 accredited ISO

Continuous improvement in reducing environmental impact.

## MUCH SAFER

## AND GREENER

ISO9001  
ISO14001  
OHSAS18001



## Electrical Data (STC)

Module Type	ECO-280M	ECO-285M	ECO-290M	ECO-295M	ECO-300M
Maximum Power at STC -P <sub>mp</sub> (W)	280	285	290	295	300
Open Circuit Voltage -V <sub>oc</sub> (V)	38.60	38.90	39.20	39.50	39.86
Short Circuit Current -I <sub>sc</sub> (A)	9.30	9.38	9.45	9.56	9.66
Maximum Power Voltage -V <sub>mp</sub> (V)	32.00	32.30	32.60	32.80	33.00
Maximum Power Current -I <sub>mp</sub> (A)	8.75	8.83	8.90	9.00	9.10
Module Efficiency STC-η <sub>m</sub> (%)	17.20	17.50	17.80	18.10	18.40

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

Power measurement tolerance: +3%

## Electrical Data (NOCT)

Module Type	ECO-280M	ECO-285M	ECO-290M	ECO-295M	ECO-300M
Maximum Power at STC -P <sub>mp</sub> (W)	198	202	206	209	213
Open Circuit Voltage -V <sub>oc</sub> (V)	35.10	35.30	35.40	35.84	36.00
Short Circuit Current -I <sub>sc</sub> (A)	7.57	7.63	7.69	7.78	7.86
Maximum Power Voltage -V <sub>mp</sub> (V)	28.50	28.80	28.90	29.08	29.25
Maximum Power Current -I <sub>mp</sub> (A)	7.23	7.30	7.38	7.46	7.55

NOCT: Irradiance 800 W/m<sup>2</sup> ambient temperature 20°C wind speed :1m/s

Power measurement tolerance: +3%

## Maximum Ratings

Maximum System Voltage (V)	1000 (TÜV), 1000 (UL)
Maximum Series Fuse Rating (A)	15

## Temperature Ratings

Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

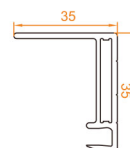
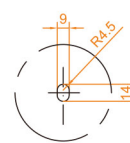
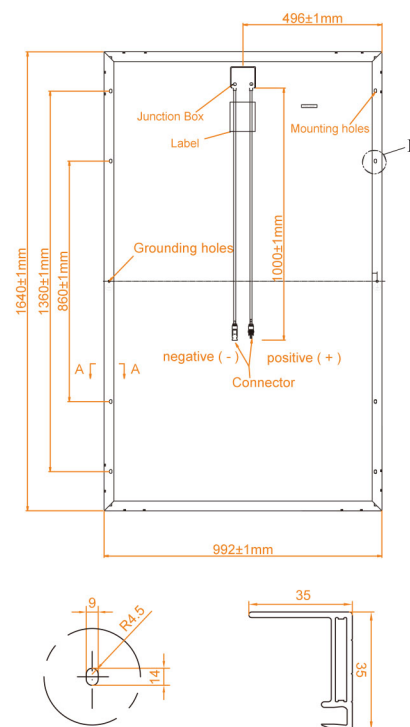
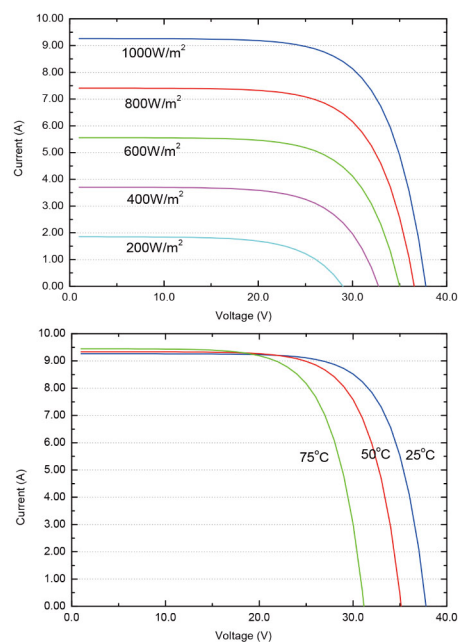
## Mechanical Data

External Dimensions	1640 x 992 x 35 mm
Weight	18.2 kg
Solar Cells	Mono crystalline 156 x 156 mm (60pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm <sup>2</sup> , cable length: 1000 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa

## Packing Configuration

Container	40'HG
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840

## I-V&P-V Curve (ECO-290M)



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Section A-A

\* All Dimensions in mm