

MOREPOWER

FORLONGER

+3% Positive Tolerance

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

ARC Glass

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

Cell&Module Matching

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

Independent Performance Verification

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

100% Electro Luminescence

EL screening provides defect free modules.

Accredited ammonia/salt mist resistance

Long life in marine and high pollution environments.

International Bankability

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

**ISO9001
ISO14001
OHSAS18001**

Audited controls for high value consistency.

True Linear 25 years Warranty

Highest power warranty coverage available on a linear basis.

Workmanship 12 years Warranty

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 ISO 18001

Continuous improvement in reducing environmental impact.



MUCHSAFER

ANDGREENER

ISO9001
ISO14001
OHSAS18001



Electrical Data (STC)

Module Type	ECO-290M (Black)	ECO-295M (Black)	ECO-300M (Black)	ECO-305M (Black)	ECO-310M (Black)
Maximum Power at STC - P_{mp} (W)	290	295	300	305	310
Open Circuit Voltage - V_{oc} (V)	38.90	39.60	39.80	40.00	40.40
Short Circuit Current - I_{sc} (A)	9.66	9.68	9.77	9.85	9.91
Maximum Power Voltage - V_{mp} (V)	32.20	32.50	32.60	32.90	33.10
Maximum Power Current - I_{mp} (A)	9.01	9.08	9.19	9.28	9.37
Module Efficiency STC- η_m (%)	17.70	18.00	18.30	18.60	18.90

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
Power measurement tolerance: +3%

Electrical Data (NOCT)

Module Type	ECO-290M (Black)	ECO-295M (Black)	ECO-300M (Black)	ECO-305M (Black)	ECO-310M (Black)
Maximum Power at STC - P_{mp} (W)	216	220	223	227	231
Open Circuit Voltage - V_{oc} (V)	36.70	36.90	37.10	37.30	37.50
Short Circuit Current - I_{sc} (A)	7.67	7.71	7.78	7.84	7.91
Maximum Power Voltage - V_{mp} (V)	29.90	30.20	30.40	30.60	30.90
Maximum Power Current - I_{mp} (A)	7.23	7.28	7.35	7.42	7.49

NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s
Power measurement tolerance: +3%

Maximum Ratings

Maximum System Voltage (V)	1000 DC/1500 DC
Maximum Series Fuse Rating (A)	15

Temperature Ratings

Pmax Temperature Coefficient	-0.39 %/°C
Voc Temperature Coefficient	-0.29 %/°C
Isc Temperature Coefficient	+0.050 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	44±2 °C

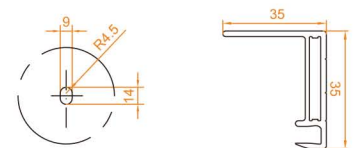
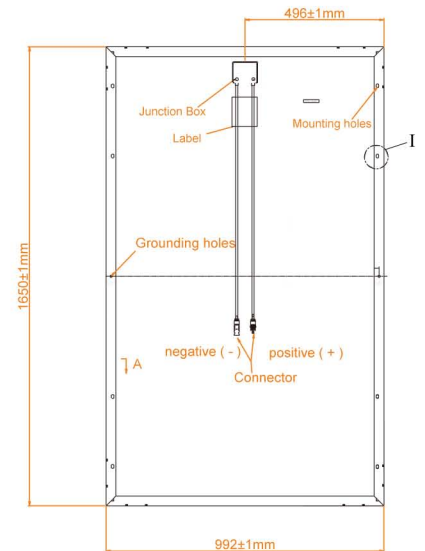
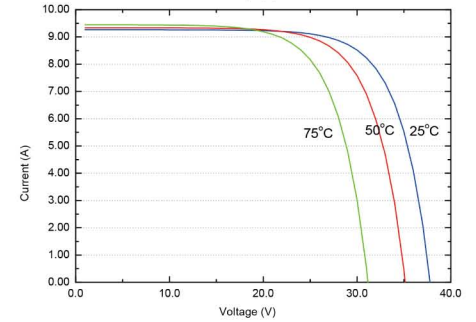
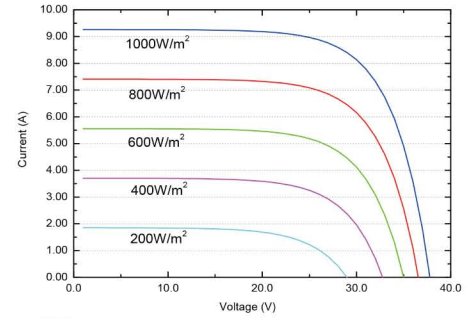
Mechanical Data

External Dimensions	1650 x 992 x 35 mm
Weight	18 kg
Solar Cells	Mono crystalline 156.75 x 156.75 mm (60pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm ² , cable length: 900 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-Black)



I I Section A-A

* All Dimensions in mm