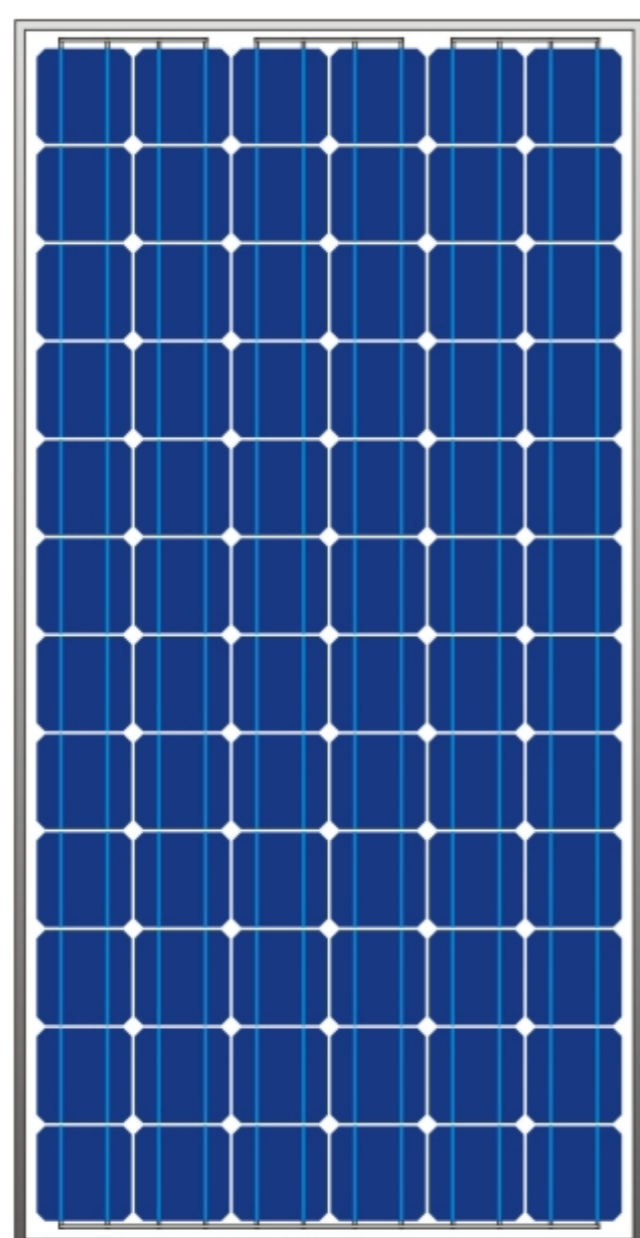


RYW180M-24 SOLAR PHOTOVOLTAIC MODULE



MODULE CHARACTERISTICS

- High efficiency crystalline silicon solar cells from TOP Brand supplier.
- High transmission low iron tempered glass, strong mechanical resistance.
- Standard waterproof junction box, with bypass diode.
- High endurance to different atrocious weather.
- 5-year limited product warranty
- Limited performance warranty:
10years at 90% of the minimal rated power out put, 25years at 80% of the minimal rated power out put

Mechanical Characteristics

Solar Cell	Monocrystalline 125 x 125 mm
No. of Cells	72 (6 x 12)
Dimensions	1580 x 808 x 50mm
Weight	15.0 kgs
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	UL 4703, TUV (2Pfg1169:2007) 4.0 mm ² symmetrical
Connectors	H4 connectors (MC4 compatible)

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax <small>Specifications are subject to change without further notification</small>	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.055 %/°C

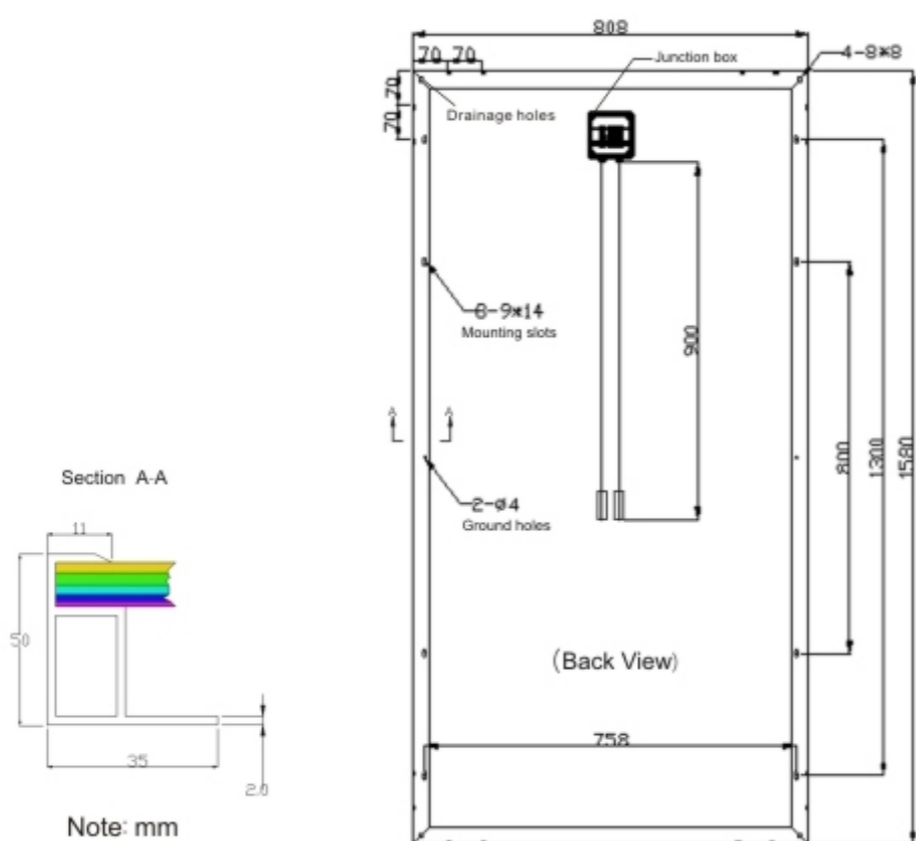
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s.

Packing Configuration

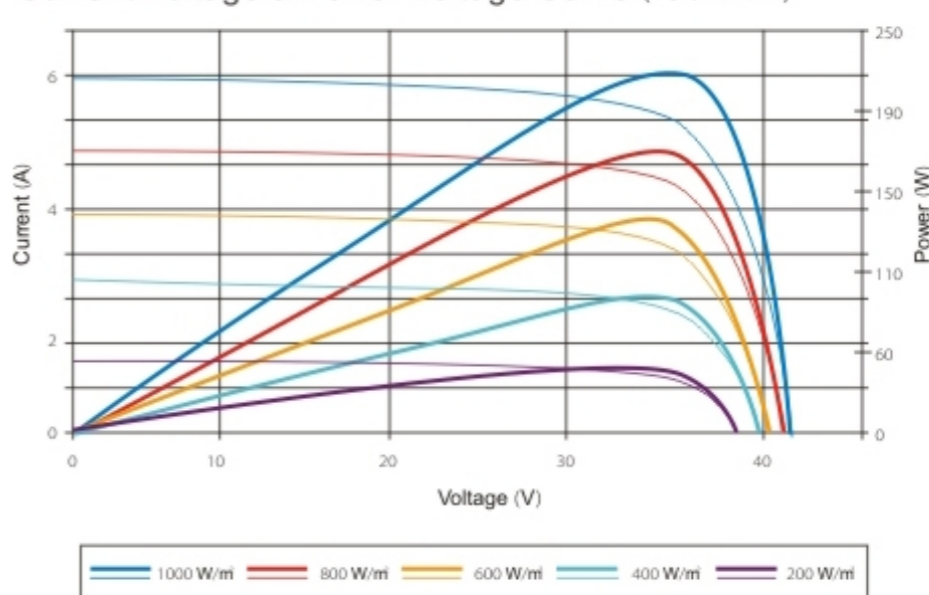
Container	20' GP	40' HC
Pieces per pallet	20	20
Pallets per container	12	28
Pieces per container	240	560

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Current-Voltage & Power-Voltage Curve (190M-24)



Electrical Characteristics

STC	RYW160M-24	RYW165M-24	RYW170M-24	RYW175M-24	RYW180M-24	RYW185M-24	RYW190M-24
Optimum Operating Voltage (Vmp)	35.0 V	35.2 V	35.3 V	35.2 V	35.3 V	36.0 V	36.2 V
Optimum Operating Current (Imp)	4.57 A	4.68 A	4.81 A	4.97 A	5.09 A	5.13 A	5.24 A
Open - Circuit Voltage (Voc)	42.1 V	42.2 V	42.2 V	42.1 V	42.2 V	42.5 V	42.6 V
Short - Circuit Current (Isc)	5.13 A	5.28 A	5.44 A	5.61 A	5.76 A	5.88 A	6.02 A
Maximum Power at STC (Pmax)	160 W	165 W	170 W	175 W	180 W	185 W	190 W
Module Efficiency	12.5%	12.9%	13.3%	13.7%	14.0%	14.5%	14.8%
Operating Module Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Maximum System Voltage	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC
Maximum Series Fuse Rating	15A	15 A	15 A	15A	15 A	15A	15A
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%

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

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