

MONOCRYSTALLINE PV MODULE 60 CELLS

ELECTRICAL CHARACTERISTICS

MODEL	1 STH-235	1 STH-240	1 STH-245	1 STH-250
Max Power Pm (W)	235	240	245	250
Max Power Voltage Vm (V)	29.3	29.7	30.2	30.7
Max Power Current Im (A)	8.02	8.07	8.10	8.15
Open Circuit Voltage Voc (V)	37.0	37.1	37.2	37.3
Short Circuit Current Isc (A)	8.54	8.58	8.62	8.66
Cell Efficiency	17.4%	17.5%	17.6%	17.8%
Module Efficiency	14.4%	14.7%	15.0%	15.3%
Maximum System Voltage (V)	600(UL)			
Power Tolerance	± 3%			

COMPONENTS & MECHANICAL DATA

Front Glass	Low iron, 4mm tempered
Junction Box	MIM Slim, IP-65 rated, UL approved
Diode	15A
Output Cables	1m cable (39 3/8 in), 12AWG, UL approved
Connectors	MC-4, IP-67, UL approved
Frame	Anodized aluminum alloy type 6063-T5
Encapsulation Material	EVA (0.46 thickness)
Back Foil	Black or White (UV Protected)
Temperature Range	-40°C to + 90°C



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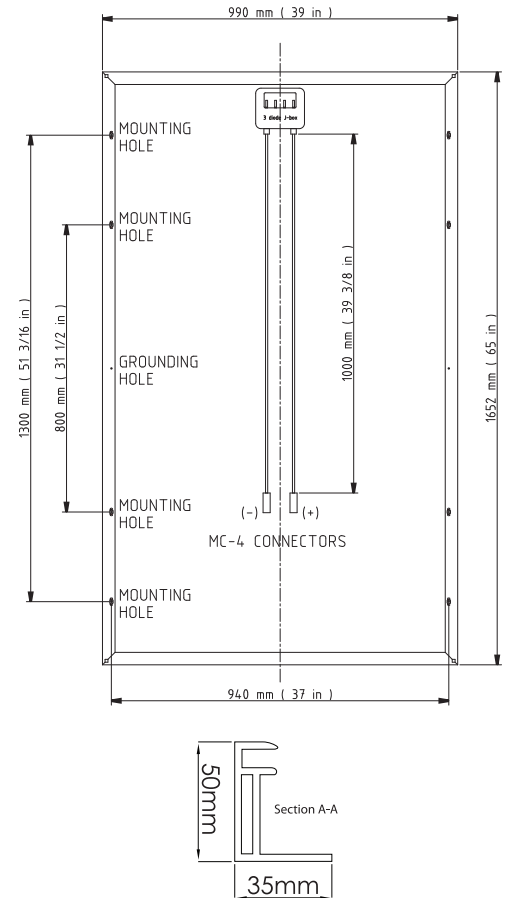
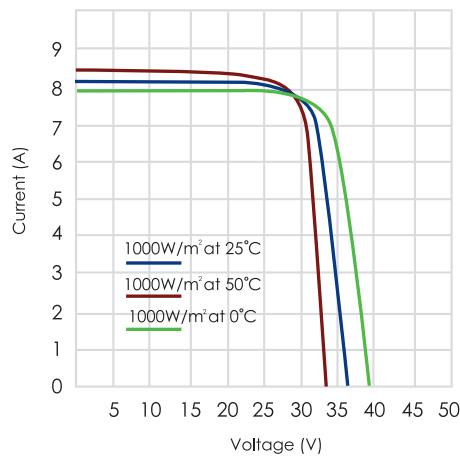
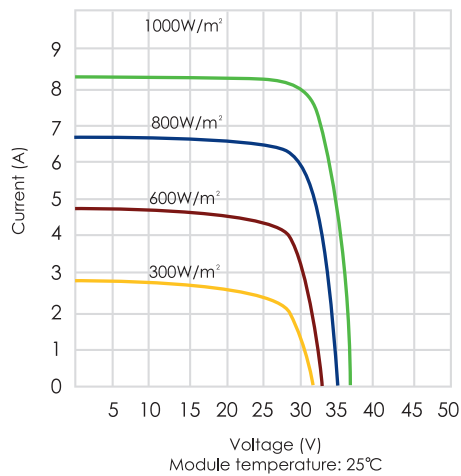
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SPECIFICATIONS

Cells	Monocrystalline silicon solar cells 156mm x 156mm
Cells Number	60 (6x10)
Dimensions (mm) / (in)	1652 x 990 x 50 / 65 x 39 x 2
Weight (kg) / (lb)	24/53

TEMPERATURE COEFFICIENTS

NOCT (°C)	50
Current Temperature Coefficient $\alpha_{I_{SC}}$ (%/°C)	+0.09
Voltage Temperature Coefficient $\beta_{V_{OC}}$ (%/°C)	-0.37
Temperature Coefficient $\gamma_{P_{MAX}}$ (%/°C)	-0.48



WARRANTY:

- 5-years product warranty
- 10-years performance warranty at 90% power output
- 25-years performance warranty at 80% power output

NOTE:

1. STC: Irradiance 1000W/m², Module temperature 25°C, AM =1.5
2. Deviation of Vm(V), Im(A), Voc(V) and Isc(A) of ±10%
3. Modules are ETL approved under UL-1703 standard
4. Modules are fire rated : Class C
5. Modules are listed under CEC 300-2008

