SE-M 181

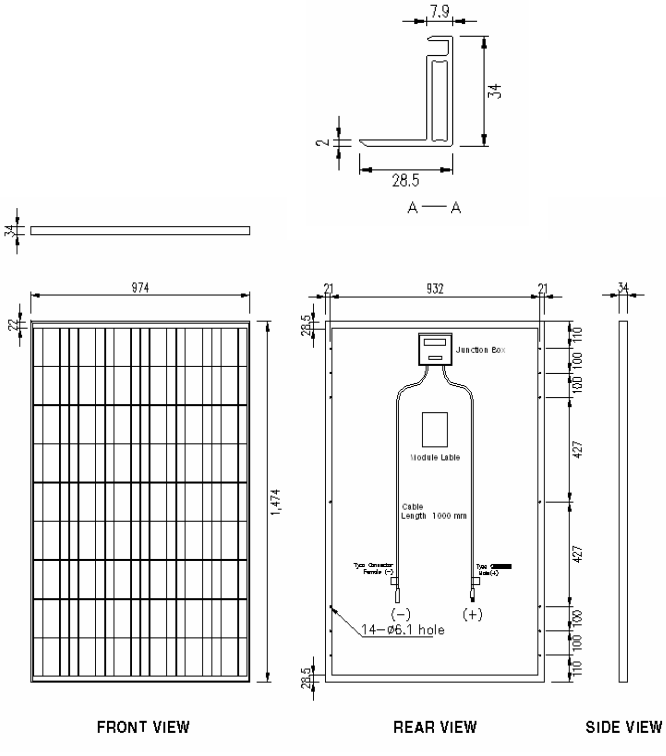
SYMPHONY ENERGY

IEC 61215, Safety Class II and CE certified

3 Years Warranty for Product

10 Years Warranty for 90% Peak Power

25 Years Warranty for 80% Peak Power



SE-M 181 module is designed for high power output.
SE-M 181 module is made of poly-crystalline silicon solar cells which have lifetime of more than 25years.
Our modules have been awarded top rating in number of survey and independent studies.
Low iron-tempered glass is designed to resist any shocks and improve light transmittance. EVA (Ethylene Vinyl Acetate) film is designed to protect and insulate the solar cells. Aluminum frames are durable and solid, and are anodized for proof against rust. A waterproof junction box is designed to allow any serial/parallel arrangement, and integrated bypass diodes prevent loss of power output from partial shade.
Symphony Energy's modules are guaranteed by strict test and studies for their quality. We sure these modules can support all photovoltaic industrial area through safety and economy.

Cell Characteristics

Manufacturer	Sharp (Japan)
Type	Multi
Size	156 x 156 mm
Number of Cells	54

Electrical Characteristics

Peak Power (Wp)	181 W ± 3%
Peak Power Voltage (Vmpp)	26.9 V
Peak Power Current (Impp)	6.73 A
Open Circuit Voltage (Voc)	32.4 V
Short Circuit Current (Ioc)	7.35 A
Module Efficiency (ηm)	12.6 %

Standard Test Condition(STC) : AM1.5 / 1000W/m² / 25 °C

Physical Characteristics

Length	1474 mm
Width	974 mm
Thickness	35 mm
Weight	16 kg
Mounting Holes (Ø=6.1 mm)	14
Junction Box, Cable, Connectors	Tyco

Temperature Coefficients

Peak Power	-0.42%/K
Short Circuit Current	+5.70mA/K
Open Circuit Voltage	-114mV/K

Nominal Operating Cell Temperature (NOTC): 46°C ± 2

Operating Temperature	- 40 ~90 °c
Storage Temperature	- 40 ~90 °c
Maximum System Voltage	DC 1,000V