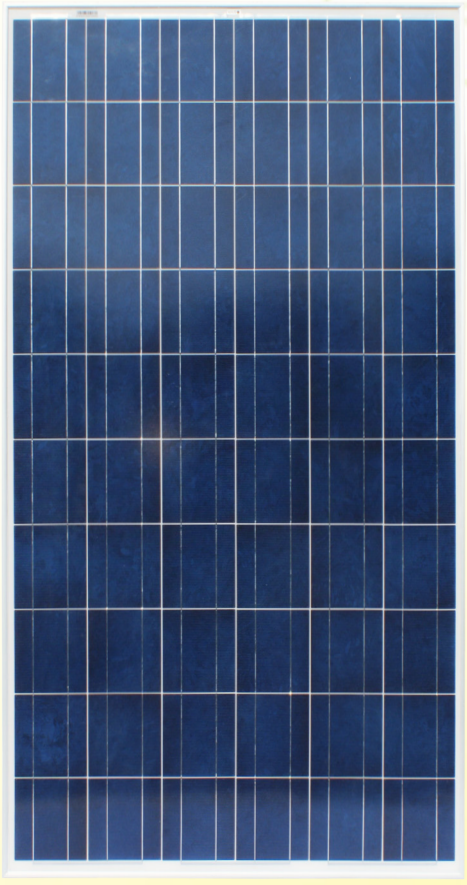
SOLAR 23

SPM-120



SOPHISTICATED POLYCRYSTALLINE SOLAR MODULE

HIGHLIGHTS

- High efficient photovoltaic module
- High grade product finishing
- High reliability by guaranteed power tolerance of ± 5 %
- Resistant against severest environmental conditions

APPLICATIONS

- PV grid-connected systems
- PV off-grid systems
- Large scale PV power plants
- PV pumping systems

RENEWABLE, INDEPENDENT, DECENTRALIZED

SOLAR MODULE SPM-120

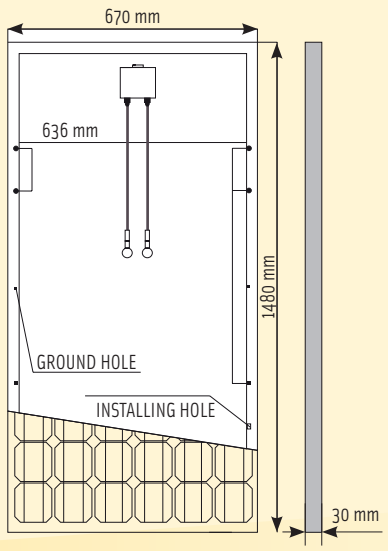
SOLAR 23

Electrical Performance

Electrical parameters solar module		SPM120-P	SPM125-P	SPM130-P	SPM135-P	SPM140-P
Rated power (Pmax)	[Wp]	120	125	130	135	140
Tolerance	[± %]	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %
Voltage at max power (Vmp)	[V]	17.4	17.4	17.4	17.4	17.4
Current at max power (Imp)	[A]	6.89	7.18	7.47	7.76	8.05
Open circuit voltage (Voc)	[V]	21.6	21.6	21.6	21.6	21.6
Short circuit current (Isc)	[A]	7.58	7.90	8.22	8.53	8.85
Maximum permitted system voltage	[V]	1000	1000	1000	1000	1000
Maximum Series Fuse Rating	[A]	15	15	15	15	15
Thermal parameters						
Normal operating cell temperature (NOCT)	[°C]	48 ± 2 °C				
Current temperature coefficient		0.06 ± 0.01 %/K				
Voltage temperature coefficient		-(78 ± 10) MV/K				
Power temperature coefficient		-(0.5 ± 0.05) %/K				
Max. permitted module temperature	[°C]	-40 to +85 °C				
General information						
Number of cells per module	[qty]	36 (4 x 9)				
Solar cell technology		polycrystalline				
Dimensions						
Lenght x Width x Depth [mm]	[mm]	1480 x 670 x 30				
Weight	[kg]	12.0				
Junction box		IP65 rated				

Test conditions: @ STC 1000 W/m², AM 1.5, 25 °C

Dimensions



Voltage-current characteristic