



SPHERE

PV Module



10 Year
Warranty



High
Efficiency



High
Reliability



IP68
Rated



AFTER SALES SUPPORT 1300 886 605

PROTECT YOUR WARRANTY

This unit must be installed by a registered, licensed installer as required by Government regulations.

Performance

Model Number	SP-PV380B-60M-H6 SP-PV380S-60M-H6		SP-PV410B-54M-H8 SP-PV410S-54M-H8		SP-PV450B-72M-H6 SP-PV450S-72M-H6		SP-PV540B-72M-H8 SP-PV540S-72M-H8		SP-PV660S-66M-H12	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (W)	380	285.6	410	308.9	450	338.3	540	406.8	660	500.2
Short-circuit Current (A)	11.42	9.23	13.85	11.19	11.36	9.18	13.70	11.07	18.44	14.90
Open-circuit Voltage (V)	41.7	38.9	37.6	35.1	50.0	46.6	49.8	46.5	45.6	42.7
Maximum Power Current (A)	10.92	8.75	13.02	10.61	10.87	8.70	12.86	10.49	17.42	14.12
Maximum Power Voltage (V)	34.8	32.7	31.5	29.1	41.4	38.9	42.0	38.8	37.9	35.4
Module Efficiency (%)	20.54		21.00		20.37		20.90		21.25	
Max. over-current Protection Rating (A)	20		25		20		25		30	
Power Tolerance (W)						0~ +5				
Measuring Uncertainty of Pm (%)						0~ ±5				
Maximum System voltage (V)						1500				

General

Junction Box	IP68				
Frame	Anodised Aluminium				
Cable	4 mm ² +300,-300 mm Length can be customized				
Fire Class Rating	Class C according to UL 790				
Connector(Model/Brand)	PV-TT02/Chuangda; PV-ST101/Hengda; PV-ZPJ030A/40th Institute				
Operating Temperature (°C)	-40 to +85				
Snow Load (pa)	5400				
Standards	IEC 61215 & IEC 61730 & ISO9001				
Dimensions (mm)	1765 x 1048 x 30	1722 x 1134 x 35	2108 x 1048 x 35	2278 x 1134 x 35	2384 x 1303 x 35
Weight (kg)	20.5	22.0	24.5	29.0	34.5

Temperature Characteristics

NMOT(°C)	45 ± 2				
Temp Coefficient of VOC (%/ °C)	-0.29	-0.27	-0.29	-0.27	-0.26
Temp Coefficient of ISC (%/ °C)	+0.05	+0.05	+0.05	+0.05	+0.04
Temp Coefficient of Pmax (%/ °C)	-0.36	-0.35	-0.36	-0.35	-0.34

- STC (Standard Test Conditions): 1000 W/m² Irradiance, 25 °C Cell Temperature, AM 1.5.
- NMOT (Normal Module Operation Temperature): 800 W/m² Irradiance, 20 °C Ambient Temperature, Wind Speed 1 m/s.
- **NOTE: Clamps are not used for these PV Modules.**