

SPM060P-NM

Multiply-crystalline Silicon Photovoltaic Module

FEATURE:

- TUV certification
- UL certification
- High power module using 6" multiply crystalline solar cell.
- Using low iron tempered glass, EVA laminate TPT backsheet.
- Anodize aluminum frame protected.
- 10 years limited warranty of 90% power output and 25 years limited warranty of 80% power output.
- diodes to avoid power decreasing by shade.



ELECTRICAL CHARACTERISTICS

	SPM65P-NM	SPM60P-NM
Power at STC (Pm)	65W	60W
Maximum power voltage (Vpm)	18.1V	17.3V
Maximum power current (Ipm)	3.69A	3.5A
Open circuit voltage (Voc)	22.0V	21.9V
Short circuit current (Isc)	3.9A	3.8A
Tolerance	±5%	±5%
Module efficiency	12.19%	11.25%
Maximum system voltage	1000V DC	
Standard test conditions	Temperature 25°C, Irradiance 1000W/m ² , AM=1.5	
Temperature coefficient	Isc:0.05%/K	Voc:-0.36%/K Pmax:-0.46%/K

Specifications

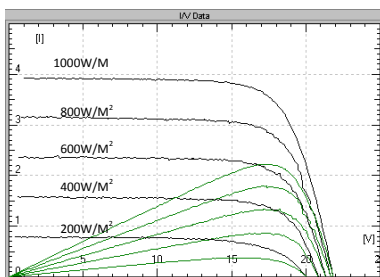
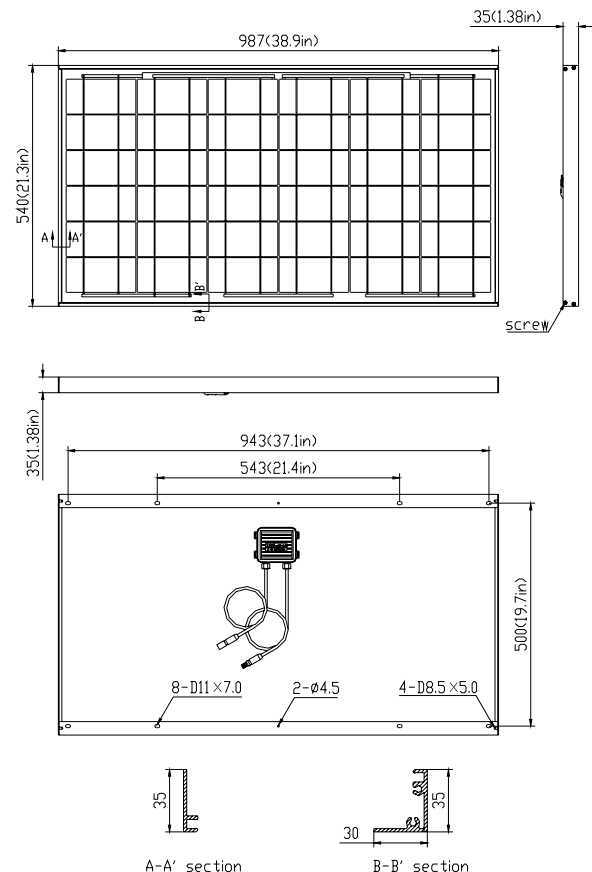
Cell	Polycrystalline silicon solar cell, (156mmx78mm)
No. of cell and connection	36 (6x6)
Dimension	987mm (38.9in) x640mm (21.3in) x35mm (1.38in)
Weight	6KG

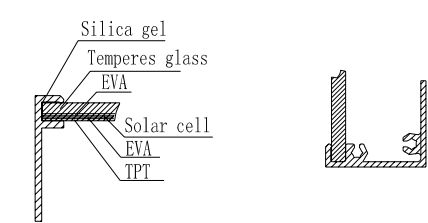
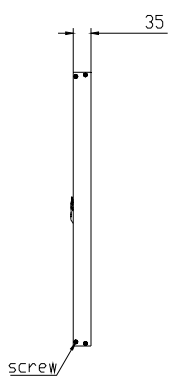
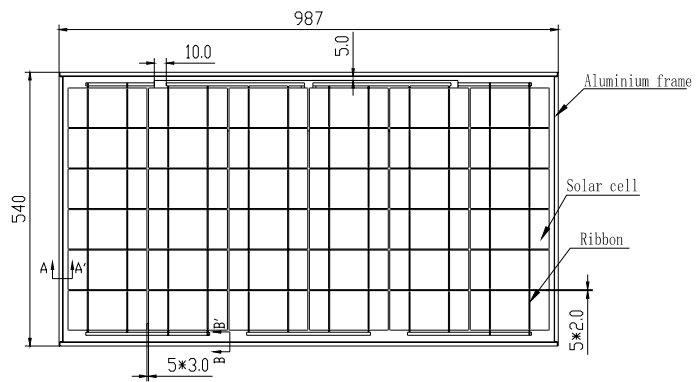
AMBIENT CONDITIONS

Operating Temperature	-40°C to +85°C
Storage Humidity	<90%

Output

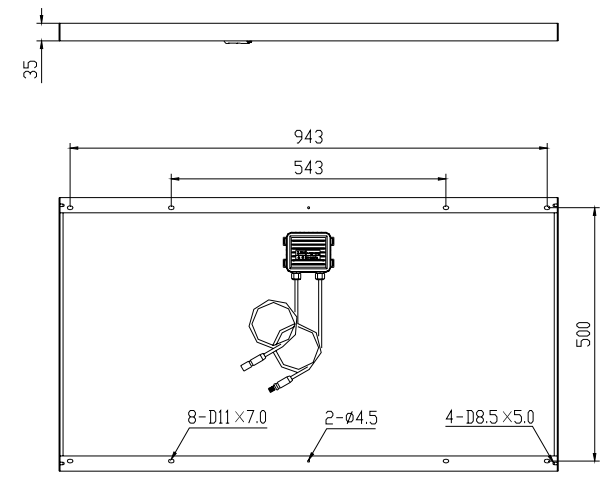
Type of output terminal	Junction box
Cable	Length 900mm

IV CURVES

OUTLINE DIMENSIONS




A-A' section B-B' section
Scale 10:1

Electrical data		
Power at stc(p _m)	65W	60W
Maximum power voltage(V _{pm})	18.1V	17.3V
Maximum power current(I _{pm})	3.69A	3.5A
Open circuit voltage (V _{oc})	22.0V	21.9V
Short circuit current (I _{sc})	3.9A	3.8A
Module efficiency	12.91%	11.25%



Parts Name	Description	Unit	Quantity
Temperess glass	3.2mm Temperess Glass 983x536	pcs	1
EVA	EAV Film T:0.46MM	M ²	1.2
Ribbon	60%Sn 40%Pb Ribbon	Kg	0.06
Solar cell	156mm*78mm polycrystalline cell	wp	65
TPT	TPe Film T:0.3mm	M ²	0.75
Aluminium frame	35mmx30mm	M	3.2
Screw	Stainless steel 304U	pcs	8
Junction box	cablr:900mm	SET	1

XXXX±2	X* ±0.2
XXX ±1	.X* ±0.1
XX ±0.5	.XX*±0.05
X ±0.2	
.XX ±0.1	

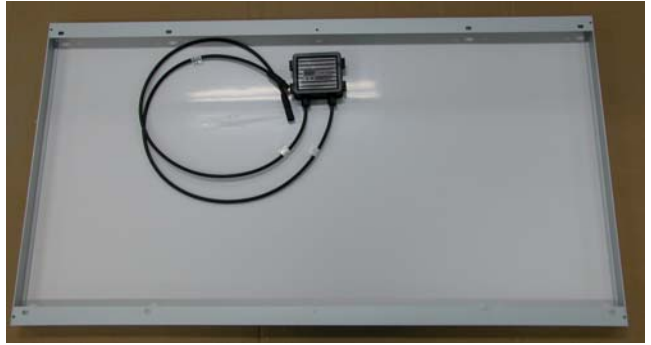


UNITS: MM	PART NO: XXX	TITLE: SPM065P-NM PV Module
APPD BY		DWG NO: SPM065PEA1G101
CHECK BY	DRAWN BY	SCALE SHEET REV. NONE 1/1 A

Product picture



Front



Back



Anodize aluminum



Junction