

## SPM210P

### 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.



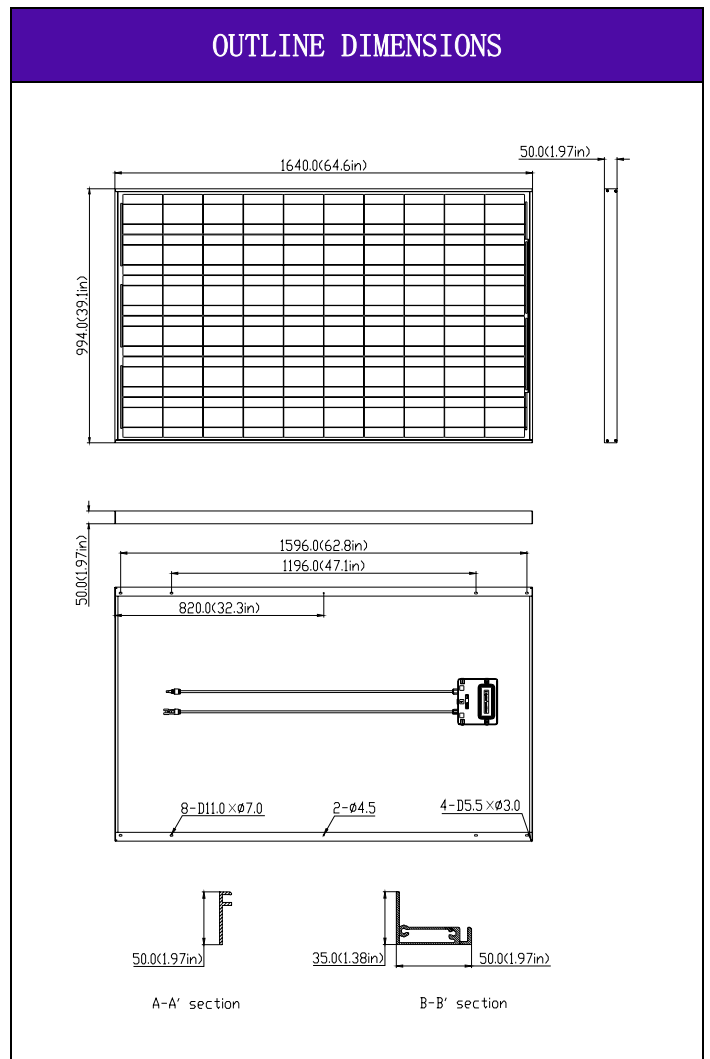
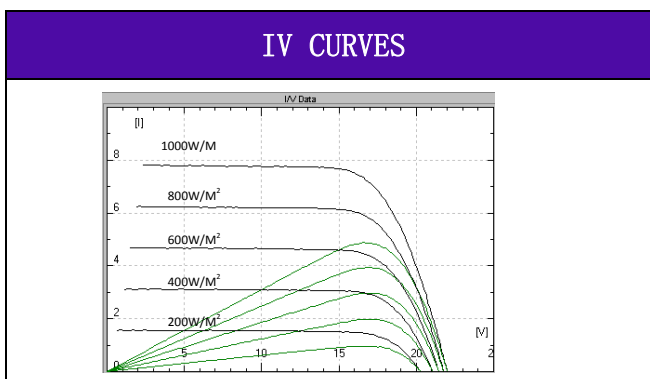
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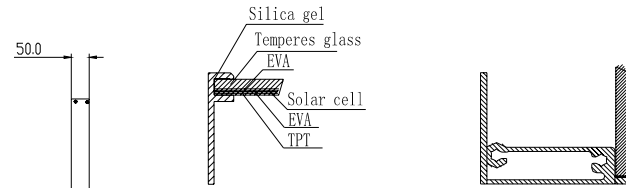
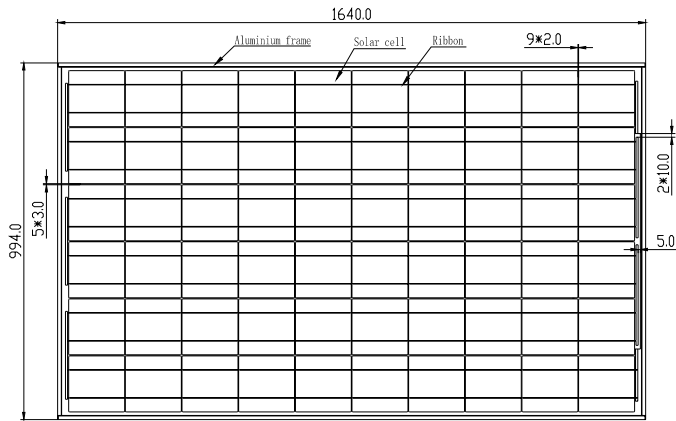
ELECTRICAL CHARACTERISTICS				
	SPM230P	SPM220P	SPM210P	SPM200P
Power at STC (Pm)	230W	220W	210W	200W
Maximum power voltage (Vpm)	30.7V	30.3V	30.1V	28.8V
Maximum power current (Ipm)	7.62A	7.44A	7.11A	7.07A
Open circuit voltage (Voc)	37.2V	36.8V	36.5V	36.4V
Short circuit current (Isc)	8.14A	7.95A	7.68A	7.72A
Tolerance	±5%	±5%	±5%	±5%
Module efficiency	13.47%	12.97%	12.47%	11.98%
Maximum system voltage	1000V DC			
Standard test conditions	Temperature 25°C, Irradiance 1000W/m <sup>2</sup> , AM=1.5			
Temperature coefficient	Isc:0.05%/K	Voc:-0.36%/K	Pmax:-0.46%/K	

Specifications	
Cell	Polycrystalline silicon solar cell, (156mmx156mm)
No. of cell and connection	36 (6x10)
Dimension	1640mm (64.6in) x994mm (39.1in) x50mm (1.97in)
Weight	18KG

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

Output	
Type of output terminal	Junction box
Cable	Length 900mm



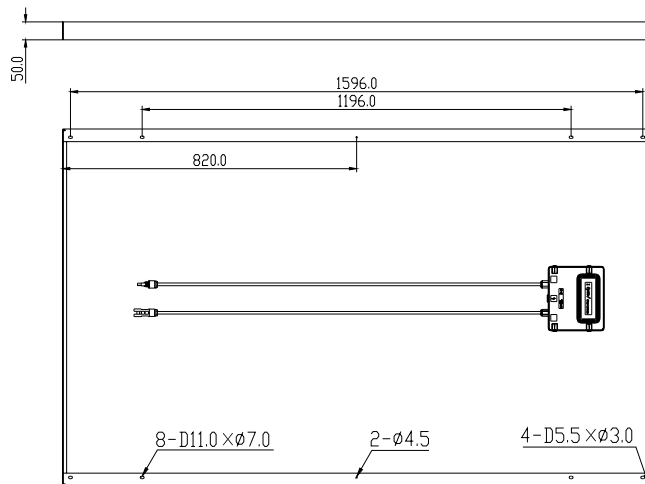


A-A' section

B-B' section

Scale 10:1

Electrical data				
Power at stc(p <sub>m</sub> )	230W	220W	210W	200W
Maximum power voltage(V <sub>pm</sub> )	30.7V	30.3V	30.1V	28.8V
Maximum power current(I <sub>pm</sub> )	7.62A	7.44A	7.11A	7.07A
Open circuit voltage (V <sub>oc</sub> )	37.2V	36.8V	36.5V	36.4V
Short circuit current (I <sub>sc</sub> )	8.14A	7.95A	7.68A	7.72A
Module efficiency	13.47%	12.97%	12.47%	11.98%



Parts Name	Description	Unit	Quantity
Temperess glass	3.2mm Temperess Glass 1636 x990	pcs	1
EVA	EAV Film T:0.46MM	M <sup>2</sup>	3.5
Ribbon	60%Sn 40%Pb Ribbon	Kg	0.11
Solar cell	156mm*156mm polycrystalline cell	#p	210
TPT	TPT Film T:0.35mm	M <sup>2</sup>	1.7
Aluminium frame	50*35 T:2.0mm	M	3.3
Aluminium frame	50*11.5 T:2.0mm	M	2.0
Screw	Stainless steel 304U	pcs	8
Junction box	Three diodes cable 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	

 Solartech Power, Inc

UNITS: MM	PART NO: XXX	TITLE: 210W Module
APPD BY		DWG NO: SPM210PCA000
CHECK BY	DRAWN BY	SCALE SHEET REV. NONE 1/1 A

# Product picture



Front



Back



Anodize aluminium



Junction box