



**Light weight solar module
AP-PVROOF-522**



FEATURES:

- Crystalline Silicon photovoltaic module with steel. Using ETFE, EVA resin, Coating Steel module for outdoor use.
- High Power module using 6" multi crystalline solar cells.
- Bypass diode is attached minimize power reduction cause by shade.
- 48~144 Pcs solar cells and connection in series.
- Avoids the expense of rocks. No roof penetrations. Aesthetically superior.
- Laminates are lightweight and easy install.
- Synchronized PV and roof warranty, 10 years limited warranty of 90% and 20 years limited warranty of 80% power output.

AP-PVROOF-522					
ELECTRICAL CHARACTERISTICS					
Pmax (W)	200	195	190	185	180
Vpm (V)	24.9	24.6	24.5	24.2	24.0
Ipm (A)	8.07	7.98	7.87	7.77	7.67
Voc (V)	29.8	29.2	28.6	28.0	27.7
Isc (A)	8.41	8.38	8.21	8.02	7.97
Cell Efficiency (%)	17.2	16.8	16.4	16.2	15.8
Max. system Voltage (V)	600				
Series Fuse rating (A)	12				
Performance Tolerance	+/-3%				

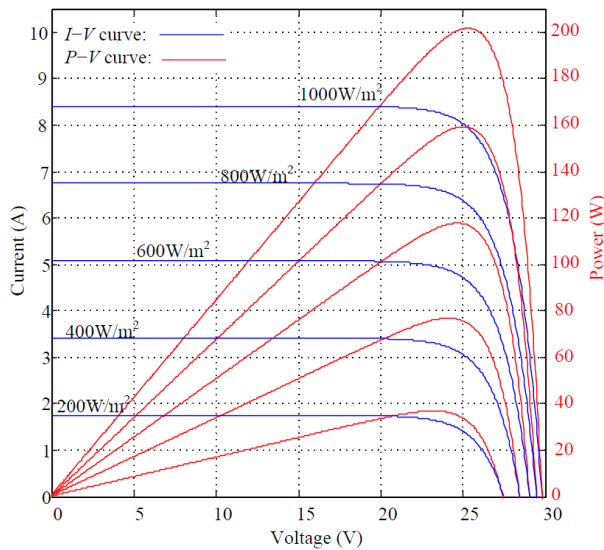
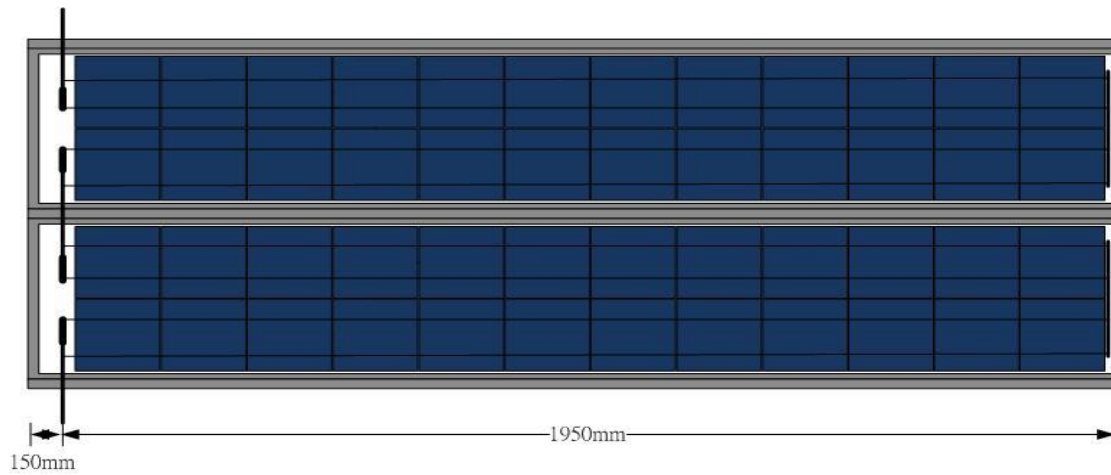
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ABSOLUTE MAXIMUM RATINGS		MECHANICAL CHARACTERISTICS	
Parameters	Rating	Dimensions (mm)	2100x870
Operating Temperature (°C)	-40~ 90	Weight (kg)	16
Storage Temperature (°C)	-40~ 90	Packing	
Dielectric Voltage withstood (V)	DC 2200		

Standard Test Conditions: AM1.5, 25°C, 1000W/m²



Temperature Coefficient of Isc: 0.08%/°C
Temperature Coefficient of Voc: -0.32%/°C
Power Temperature Coefficient: -0.38%/°C
NOCT: 46±1°C

- Japan Patent No:3173057
- Australia Patent No.2011101351
- Korea Patent SN:9593/2011, Filing Date:10/28/20
- U.S. Patent SN:13107909, Filing Date: 5/14/2011
- Taiwan Patent No. M404245
- Germany Patent No.20 2011 050 085.3
- China Patent No. 201020601150.5

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