

API-P SERIES

285 – 315 WATT HIGH QUALITY POLY-CRYSTALLINE PV MODULES AVAILABLE IN BOTH STANDARD AND BLACK ON BLACK.

ADVANCE POWER INC.

Using automated production lines, top of the line solar cells and materials complying to highest industry standards, Advance Power Inc. provides a complete set of poly and mono-crystalline PV modules ranging from **10W to 360W**.

Advance Power Inc. offers panels for use in small off-grid systems to the largest on-grid solar farms. Panels are tested and qualified for the severest weather conditions.



FEATURES	BENEFITS
Solar module efficiency up to 16.5%	Generate more energy per square meter
Protective, Bypass diodes	Avoids effect of partial shading
Factory equipped weatherproof junction box Waterproof(UL94, V-O) connector Anodized aluminum frame 24v system	Flawless operation in wet weather and marine applications Perfect for GRID applications
Tempered glass EVA resin Weather proof film Anodized aluminum frame	Resilient to harsh weather conditions
Highest standards in manufacturing and design quality Cleanroom-like production line ISO9001:2008	Optimal panel performance Long term product performance

QUALITY ASSURANCE

- ISO9001:2008
- Electrical insulation test
- Outdoor exposure test
- Hot spot endurance test
- UV exposure IEC61345
- Thermal cycling
- Humidity freeze
- Damp heat test
- Robustness of termination test
- Wet leakage current test
- Mechanical load test
- Hail impact test
- Bypass diode thermal test

INVESTMENT PROTECTION

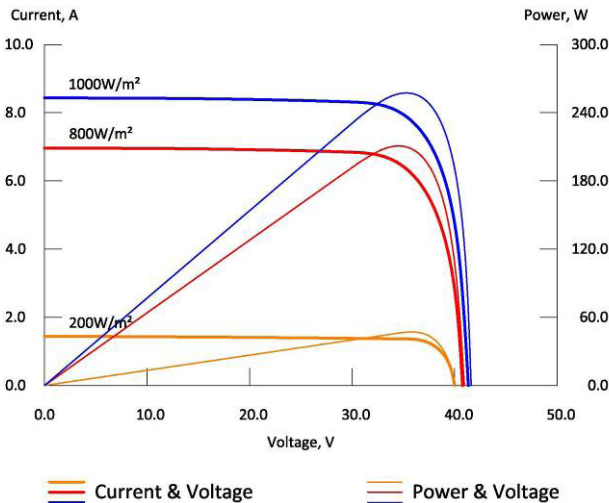
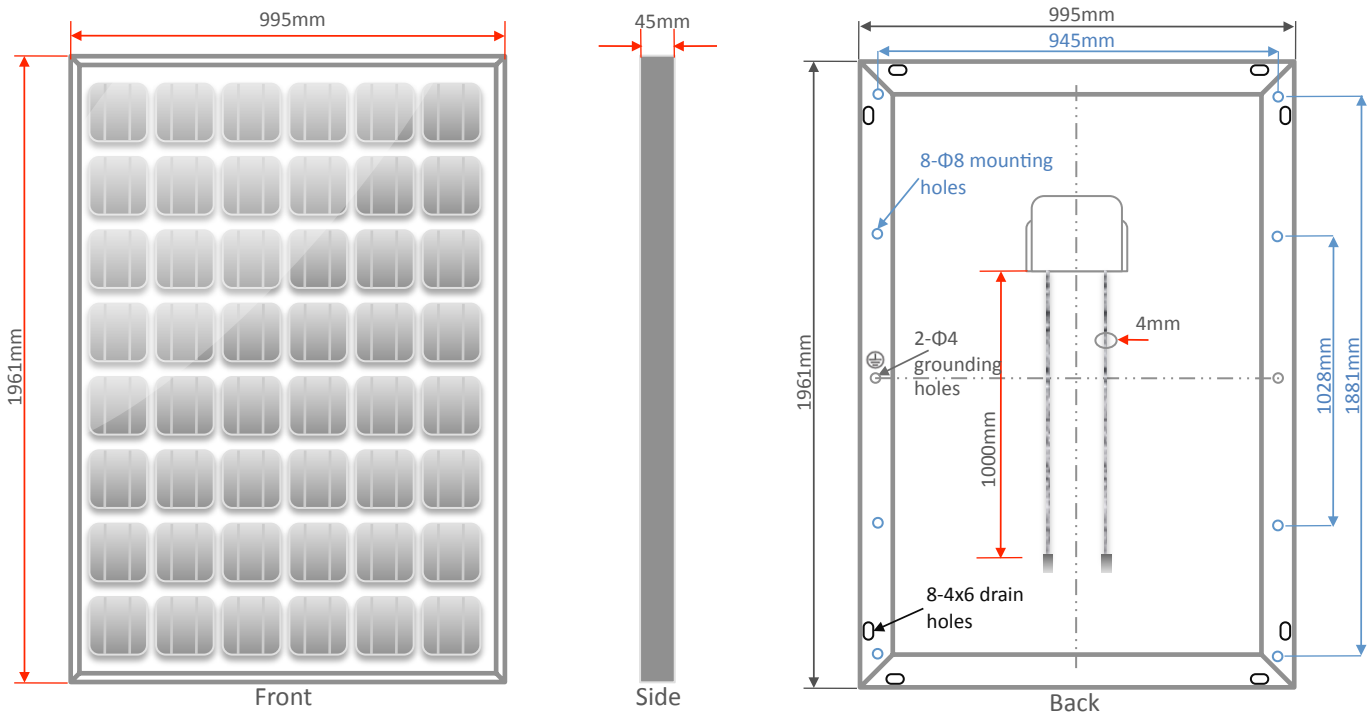
- 10 years product workmanship guarantee
- 12 years 90% power output warranty
- 25 years 80% power output warranty



Specifications subject to change without notice.

API-P SERIES

Electrical Characteristics	API-P285	API-P290	API-P295	API-P300	API-P305	API-P310	API-P315
Maximum Power [W]	285W	290W	295W	300W	305W	310W	315W
Tolerance	+ 3%						
Open circuit Voltage [V]	44.21	44.28	44.42	44.86	45.00	45.22	45.58
Short circuit Current [A]	8.32	8.46	8.49	8.54	8.56	8.62	8.67
Maximum Power Voltage [V]	36.79	36.79	37.01	37.66	37.87	38.02	38.45
Maximum Power Current [A]	7.75	7.96	8.00	8.05	8.08	8.16	8.24
Solar Module Efficiency [%]	14.61	14.86	15.12	15.38	15.63	15.89	16.14
Series Fuse Rating [A]	15						
Terminal Box Protection Code	IP65						
Maximum System Voltage [V]	DC1000(IEC), DC600(UL)						
Operating Temperature [C]	-40 to 85						
Number of cells	72 (6" Poly)						
Connector Type	Tyco/MC4 Compatible – based on customer request						



Mechanical Characteristics	
Frame	Anodized Aluminum
Dimension (L x W x D)	77.20" x 39.17" x 1.77" / 1961mm x 995mm x 45mm
Weight/pc	23.0kg/50.7lbs
Packing	12pcs/carton
Loading/container	240pcs/20ft; 528/40ft
Maximum wind load	5400 Pa

Temperature Coefficients		Standard Test Conditions (STC)	
NOCT	44.9±0.1°C	Irradiance	1000W/m²
Short circuit current	+0.06%/C	Module Temperature	25 °C
Open circuit voltage	-0.15%/C	AM	1.5
Max power output	-0.45%/C		

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