



550 Watt MONOCRYSTALLINE HALF CELL MODULE



Features



High module conversion efficiency

Module efficiency up to 21.3 % achieved through advanced cell technology and manufacturing capabilities



Excellent performance under low light environment

Excellent performance under low light conditions (morning, evening and cloudy days)



Guaranteed positive tolerance

Positive tolerance of up to 5^{Watt} delivers higher outputs reliability



Strict quality control, meeting the highest international standard

ISO 9001



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal)



Guarantee

10 years product guarantee, 25 years linear performance warranty

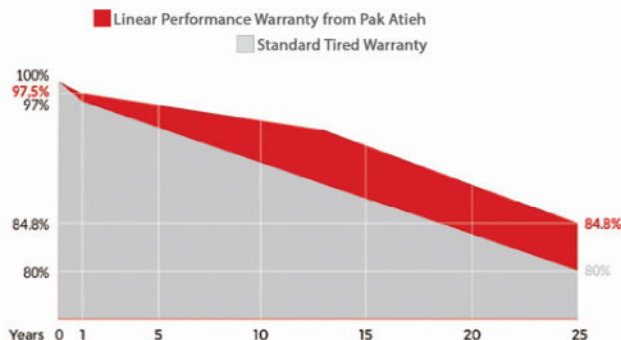
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Pak Atieh Energy Production Industries

We are one of the biggest manufacturer of crystalline silicone modules in the region. Our products range cover all panels from residential to utility-scale projects. Pak Atieh is committed to supply the best quality products&technology to its customers. The company implemented strictly ISO9001 quality management system. Our solar modules can meet the IEC61215 and IEC61730 standards.

Industry-leading Warranty based on nominal power



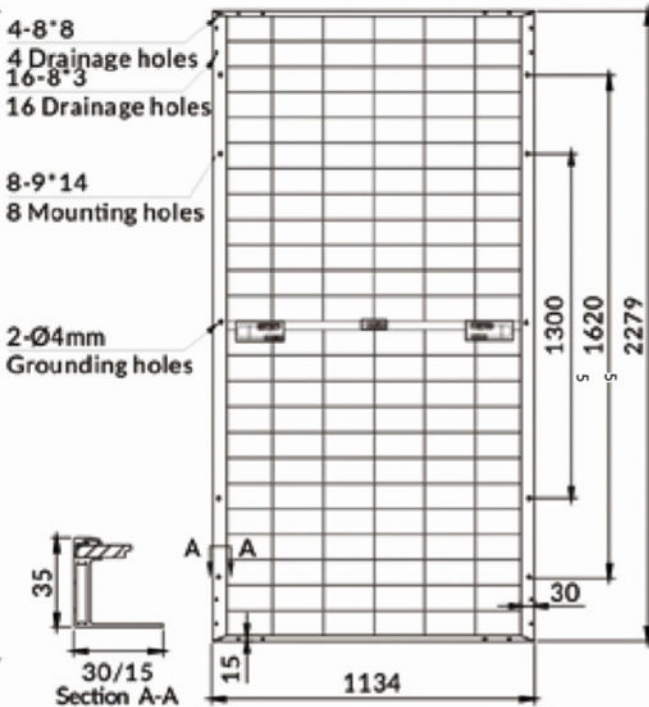
IP68 Rated Junction Box

Supports installations in multiple orientations. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

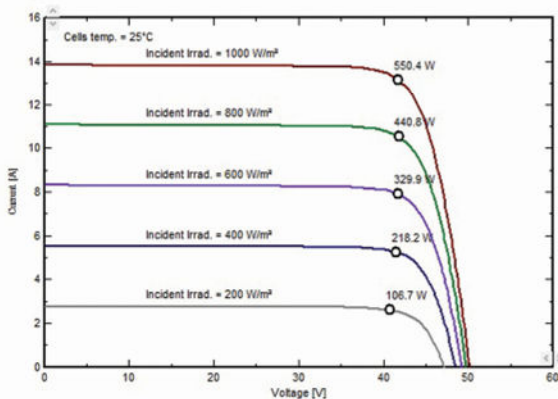
Factory: No.7, 8th Talash, Fariman Industrial Estate, 45th Km Mashhad-Fariman Rd, Mashhad, Iran.

Email: Info@pakatieh.com / Website: www.pakatieh.com / Tel: +98 51 34693600

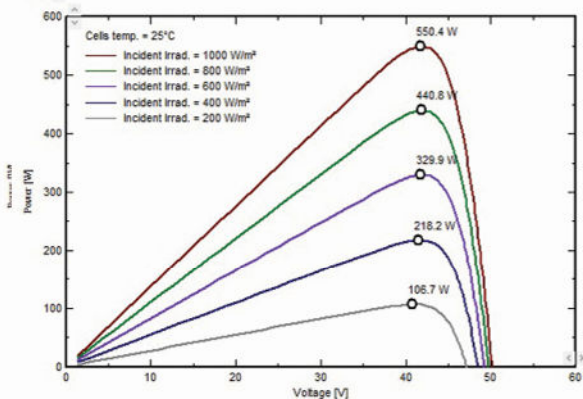
Model: PAK- 550PM



IV Curve



PV Curve



Electrical Characteristics

STC	
Maximum Power at STC (Pmax)	550 W
Optimum Operating Voltage (Vmp)	42.28 V
Optimum Operating Current (Imp)	13.01 A
Open Circuit Voltage (Voc)	50.32 V
Short Circuit Current (Isc)	13.90 A
Module Efficiency	21.30 %
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W

STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5;

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- %3

NOCT	
Maximum Power (Pmax)	412 W
Optimum Operating Voltage (Vmp)	39.20 V
Optimum Operating Current (Imp)	10.51 A
Open Circuit Voltage (Voc)	46.55 V
Short Circuit Current (Isc)	11.13 A

Temperature Characteristics

Temperature Coefficient of Pmax	-0.36 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	+0.05 %/°C

Mechanical Characteristics

No. of Cells	144 (6*24)
Dimensions	2279*1134*35 mm
Weight	28.5 kgs
Solar Cell	Monocrystalline M10/182mm
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	TUV (2Pfg1169:2007) 4.0 mm2 Symmetrical lengths (-) 400mm / (+) 400mm (Length can be customized)
Connectors	MC4 connectors