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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

S1-M 290-300 MODULE

Tolerance 0 ~ +0.2% - 290 Wp
Tolerance 0 ~ -0.3% - 300 Wp

ISO9001:2015



KEY FEATURES



4 Busbar Solar Cell:

4 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency:

Module efficiency up to 18.41%



Low-light Performance:

Advanced glass and solar cell surface texture allow for excellent performance in low-light environments. Generate energy even on cloudy days.



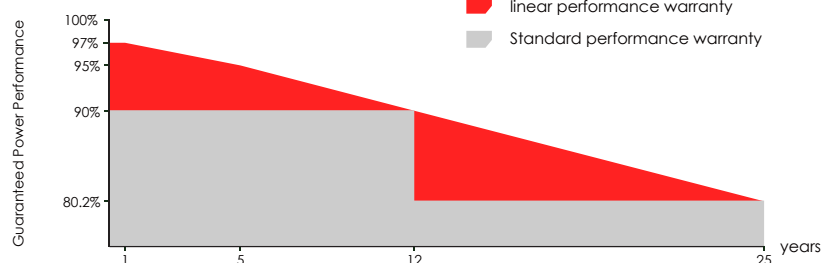
Durability

Long-lasting quality in any climate conditions



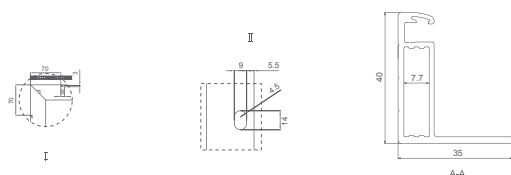
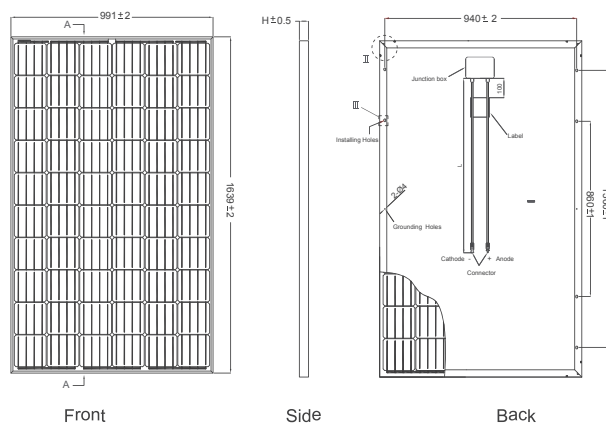
Made in Bahrain

LINEAR PERFORMANCE WARRANTY

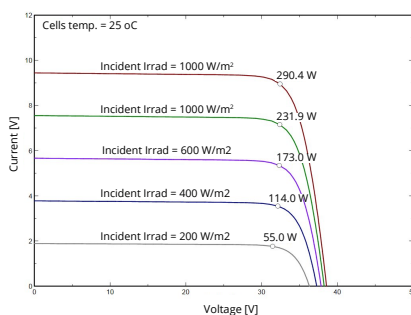


Engineering Drawings

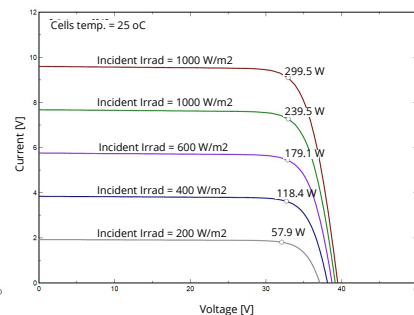
Electrical Performance



Current-Voltage Curves:



S1-290



S1-300

Packaging Configuration

(Two boxes=One pallet)

26pcs/box, 52pcs/pallet, 728 pcs/40'HQ Container

Mechanical and Physical Characteristics

Module	S1-290	S1-300
Cells	60 pcs; 156mm x 156mm; Monocrystalline	60 pcs; 156mm x 156mm; Monocrystalline
Weight	19.5 kg	19.5 kg
Dimensions	L:1639mm W:991mm D:40mm	to L:1639mm W:991mm D:40mm
Glass	3.2mm Tempered, low-iron, ARC Glass	3.2mm Tempered, low-iron, ARC Glass
Frame	40mm Anodised Aluminium Alloy	40mm Anodised Aluminium Alloy
Cable Size	Area: 4mm² Length: 1m	Area: 4mm² Length: 1m
Junction Box	IP 67 with MC 4 Connection	IP 67 with MC 4 Connection

Electrical Characteristics

Maximum Power (Pmax)	290 Wp	300 Wp
Power Output Tolerance (W)	+0.5 W, -0 W	-0.9 W , +0 W
Voltage at Pmax (V mp)	32.52 V	32.84 V
Current at Pmax (I mp)	8.931 A	9.107 A
Open-Circuit Voltage (Voc)	38.58 V	39.48 V
Short-Circuit Current (Isc)	9.443 A	9.595 A
Module Efficiency	17.30%	18.41%
Standard Test Conditions	Air Mass AM 1.5	Air Mass AM 1.5
	Irradiance 1000 W/m²	Irradiance 1000 W/m²
	Cell Temperature 25 °C	Cell Temperature 25 °C
Temperature Coefficient of Isc (%/C)	+0.046	+0.047
Temperature Coefficient of Voc (%/C)	-0.31	-0.32
Temperature Coefficient of Power (%/C)	-0.4	-0.4
Maximum Series Fuse Rating (A)	15 A	15 A
Maximum System Voltage (Vdc)	1000 V	1000 V
Operating Temperature (°C)	-40/85	-40/85
Number of Bypass Diodes	3	3