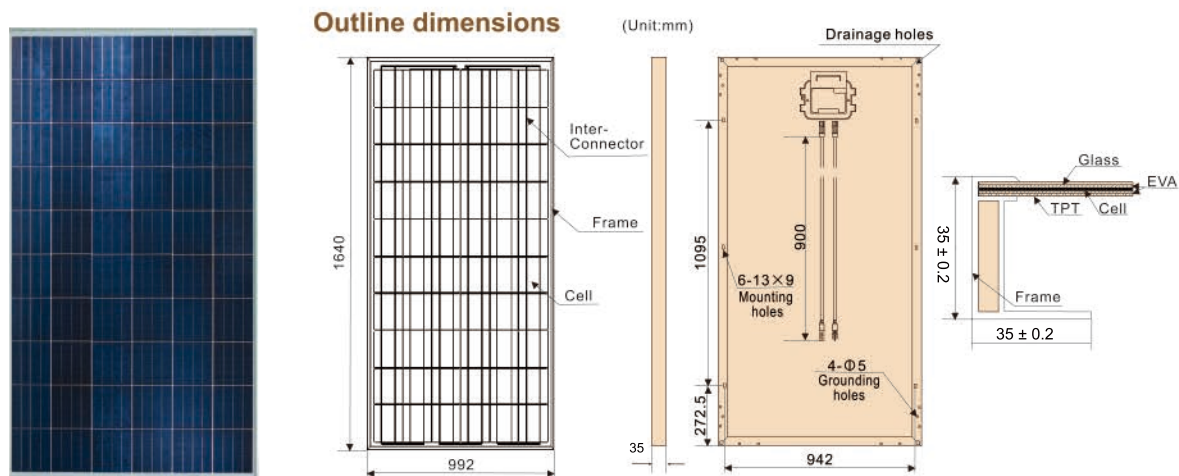


Polycrystalline silicon photovoltaic series

Module power with 270-290w



Specifications

Cell	Polycrystalline silicon solar cells 156mm square
Number of cells and connections	60 in series
Application	DC 24V system
Maximum system voltage(V)	DC 1,000
Series fuse rating(A)	15
Nominal power(W)	270-290
Dimension(mm)	1640×992×35
Weight(Kg)	18.2 ± 3%
Type of output terminal	Lead wire with connectors
Junction box	3 bypass diodes

Electro-optical characteristics

Parameters	Symbol	HG-270P	HG-275P	HG-280P	HG-285P	HG-290P
Open circuit voltage	Voc	38.6V	38.7V	38.8V	38.9V	39.1V
Maximum power voltage	Vmp	32.4V	32.5V	32.6V	32.7V	32.8V
Short circuit current	Isc	8.82A	9.13A	9.28A	9.39A	9.49A
Maximum power current	Imp	8.34A	8.46A	8.59A	8.72A	8.84A
Maximum power	Pm	270W	275W	280W	285W	290W
Module efficiency	η	16.60%	16.90%	17.20%	17.50%	17.80%
Power output tolerance		0 ~ +3%	0 ~ +3%	0 ~ +3%	0 ~ +3%	0 ~ +3%

Packaging specifications

Number of modules per pallet	65
Number of pallets per 40' container	14
Packaging box dimensions(L / W / H)(mm)	1690 ×1130×2450
Box weight(Kg)	1225

Parameters	Rating
Operating temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C
αPm	-0.461%/K
αIsc	+0.072%/K
αVoc	-0.335%/K
NOCT	46 ±2/ °C

Mechanical specifications

Cable	Solar cable, 900mm length, 4m m ² prefabricated with plugs (male/female)
Front glass	Transparent toughened safety glass 3.2mm
Cell encapsulation	EVA(Ethylene-Vinyl-Acetate), 0.5mm
Backside	Composite film
Frame	Anodised aluminium cavity frame
Maximum surface load	(Screwless) with drainage holes. Entire module certified to withstand high wind loads(2400Pa), snow loads(5400Pa)
Hail resistance	Maximum diameter of 25mm with impact speed 83km/h