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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Himin Clean Energy Holdings Co., Ltd.**

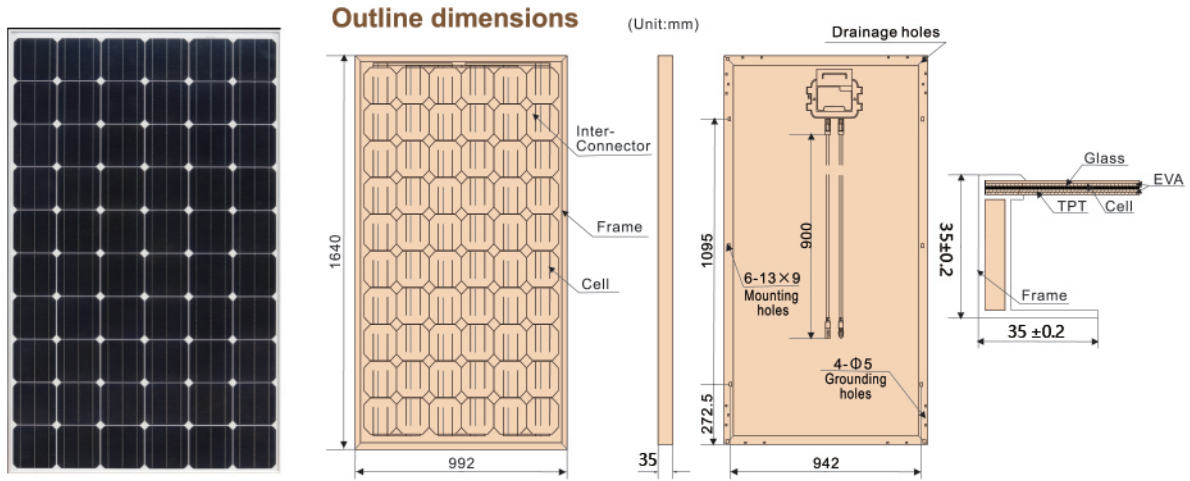
**HG 285-315M**

**HG-315S/Da**

Also available on the web at

[EnergyPal.com/himin-clean-energy-holdings-co-ltd-solar-panels/hg-315s-da](http://EnergyPal.com/himin-clean-energy-holdings-co-ltd-solar-panels/hg-315s-da)

**Module power with 285-315w**



**Specifications**

Cell	Monocrystalline 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)	285-315
Dimension(mm)	1640×992×35
Weight(Kg)	18.2
Type of output terminal	Lead wire with connectors
Junction box	3 bypass diodes

**Electro-optical characteristics**

Parameters	Symbol	HG-285S/Da	HG-290S/Da	HG-295S/Da	HG-300S/Da	HG-305S/Da	HG-310S/Da	HG-315S/Da
Open circuit voltage	V <sub>OC</sub>	38.6V	38.8V	38.9V	39.0V	39.6V	40.2V	40.5V
Maximum power voltage	V <sub>mp</sub>	32.5V	32.5V	32.6V	32.8V	32.9V	33.1V	33.3V
Short circuit current	I <sub>sc</sub>	9.38A	9.50A	9.64A	9.78A	9.85A	9.94A	10.0A
Maximum power current	I <sub>mp</sub>	8.77A	8.93A	9.05A	9.15A	9.28A	9.37A	9.46A
Maximum power	P <sub>m</sub>	285W	290W	295W	300W	305W	310W	315W
Module efficiency	η	17.5%	17.8%	18.1%	18.4%	18.7%	19%	19.4%
Power output tolerance		0 ~ +3%	0 ~ +3%	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

**Temperature coefficients**

Parameters	Rating
Operating temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C
αP <sub>m</sub>	-0.452%/K
αI <sub>sc</sub>	+0.060%/K
αV <sub>oc</sub>	-0.336%/K
NOCT	46 ± 2/ °C

**Mechanical specifications**

Cable	Solar cable, 900mm length, 4m <sup>2</sup> 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