

HIMIN CLEAN ENERGY HOLDINGS CO., LTD. Polycrys

Polycrystalline photovoltaic module



POLYCRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 280W~295W POWER

Himin Clean Energy Holdings Co., Ltd, as the main holder of the fourth International Solar City Congress (Dezhou city, 2010) and the constructor of China Solar Valley, has concentrated on solar energy research since 1995.

Himin's HG-280P~295P photovoltaic module is designed for large electrical power requirements, this module has super durability to withstand rigorous operating conditions and is suitable for grid connected systems.

Quality & Reliability

Robust, corrosion resistant aluminum frames independently tested to withstand wind loads of up to 2400Pa and snow loads of up to 5400Pa ensuring a stable mechanical life.

Module independently tested to ensure conformances with certification and regulatory standards.

Manufacturing factory certified by ISO 9001 and ISO 14001.

Guarantees and certifications

Product warranty	10 years
Performance guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Approvals and certificates	TUV:IEC 61215 Edition II, IEC 61730 I and II,MCS

In the absence of confirmation by specification sheets,Himin takes no responsibility for any defects that any occur in equipment using any Himin products shown in catalogs,data books,etc.

Contact Himin in order to obtain the latest specification sheets, before using any Himin products.

Specifications are subject to change without notice.



Specifications

HG-280P~295P

Cell	Polycrystalline silicon solar cells,
	156mm square
Number of cells and connections	72 in series
Application	DC 24V system
Maximum system voltage	DC 1,000V
Series fuse rating	15A
Nominal power	280W~295W
Dimensions	1956×992×50mm
Weight	23.6Kg
Type of output terminal	Lead wire with connectors
Junction box	3 bypass diodes

Electro-optical characteristics

Parameters	Symbol	HG-280P	HG-285P	HG-290P	HG-295P
Open circuit voltage	Voc	44.5V	44.7V	45.1V	45.2V
Maximum power voltage	Vmp	37.2V	37.4V	37.8V	38.0V
Short circuit current	lsc	8.05A	8.10A	8.20A	8.24A
Maximum power current	Imp	7.53A	7.62A	7.67A	7.76A
Maximum power	Pm	280W	285W	290W	295W
Encapsulated solar cell efficiency	η C	16.0%	16.2%	16.6%	16.8%
Module efficiency	ก ท	14.4%	14.7%	14.9%	15.2%
Power output tolerance		0~3%	0~3%	0~3%	0~3%

Characteristics



current, vs. irradiance characteristics (cell temperature:25°C) Voc(V) Short circuit current Isc(A) 40 Open circuit voltage 35 30 25 20 15 10

Open circuit voltage, short circuit

Normalized Isc,Voc,Pmvs.cell

temperature characteristics

Normalized Isc, Voc, Pm(%)

12

100

80

60

40

20

0

-50 -25 0 25 50 75 100

Cell temperature()

200 400 600 800 1000

0

0

Irradiance(W/m)

Outline dimensions







Packaging Specifications

Number of modulesper pallet	42
Number of pallets per 40' container	11
Packaging box dimensions	
(L / W / H)	2260×1020×2240mm
Box weight	1050Kg

Conditions

Standard test conditions (STC)

Irradiance:1,000W/m²

AM1.5

Module temperature:25C

Temperature coefficients

Parameters	Rating	
Operating temperature	-40 to +85℃	
Storage temperature	-40 to +85 ℃	
α Pm	-0.470%/K	
α lsc	+0.035%/K	
α Voc	-0.351%/K	
NOCT	46 ±2/ ℃	

Mechanical specification

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

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