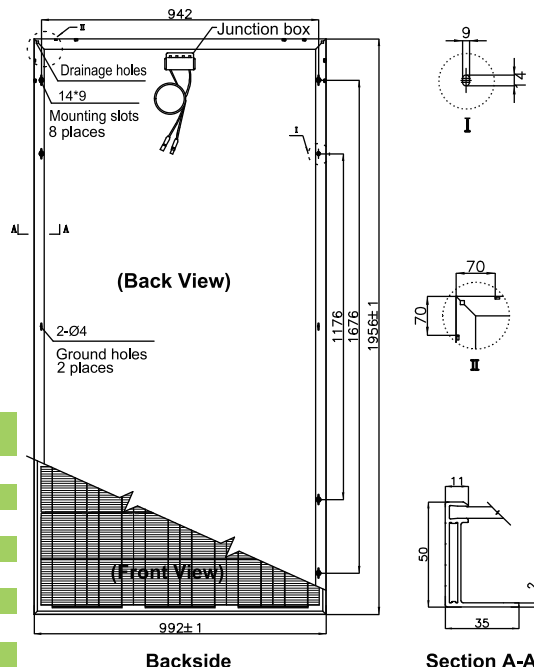
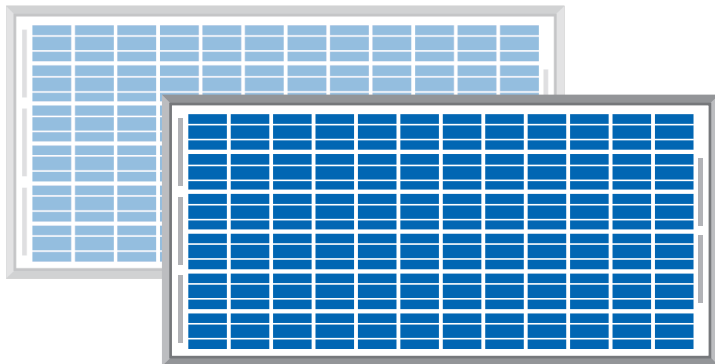




# Qihong ( shanghai ) New Energy Technology Co., Ltd.

## Photovoltaic Modules

### **QHP290W72** Photovoltaic modules 72pcs 156x156mm poly-crystalline silicon cell



MODULE		QHP290W72				
Encapsulation		Glass/EVA/Cell/EVA/TPT				
Size and Number of cells		156mm*156mm 72/6*12pcs				
Maximum Power ( Pmax )	W	280	285	290	295	300
Cell efficiency	≥%	16.0	16.2	16.5	16.8	17.1
Module Efficiency	≥%	75.2	75.3	75.1	75.6	75.5
Tolerance	%	±3				
Open Circuit Voltage ( Voc )	V	44.7	44.9	45.1	45.5	45.9
Short Circuit Current ( Isc )	A	8.32	8.42	8.56	8.57	8.56
Maximum Power Voltage ( Vmp )	V	36	36.2	36.2	36.4	36.6
Maximum Power Current ( Imp )	A	7.78	7.87	8.01	8.10	8.19
Max.syst.Open Circuit Voltage	V	1000				
Diodes		6by-pass				
Dimension	mm	1956x992x50				
Weight	kg	24				
Operate Temp Scope	°C	-40~+85				
Relative humidity	%	0~100%				
Frame Thickness ( mm )		Quantity/Container				
50mm		180pcs/20GP、396pcs/40GP、462pcs/40HQ				
45mm		200pcs/20GP、440pcs/40GP、506pcs/40HQ				

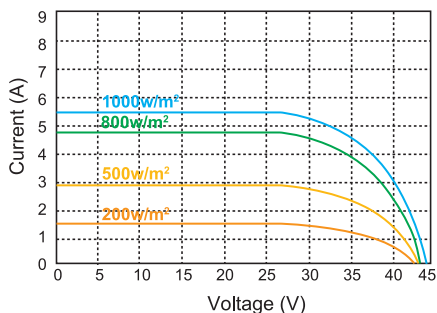
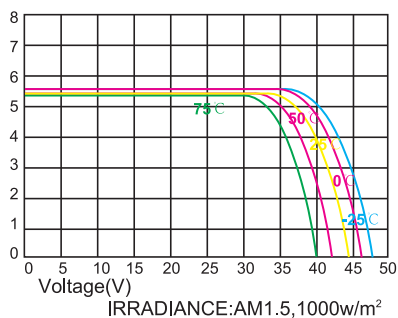
#### Temperature Coefficients

NOCT		46 C ±2 C
short-circuit-current temperature coefficient	$\alpha(I_{sc})$	0.08%/C
open-circuit Voltage temperature coefficients	$\beta(V_{oc})$	-0.32%/C
peak power temperature coefficients	$\gamma(P_{max})$	-0.38%/C

NOCT: Nominal Operating Cell Temperature date is only for reference.

#### Output

Cable 4.0mm<sup>2</sup>(TUV)      Length 900mm      Connector MC Type



#### Photovoltaic modules 72pcs 156x156mm poly-crystalline silicon cell

The QHP290W series modules consist of 72pcs 156x156mm poly-crystalline high efficient silicon cells, which are individually characterized and electronically matched before interconnection and Laminated with toughened glass, EVA and TPT of high quality.

After assembled with anodized aluminum alloy frame, cable and junction box with MC4 connectors, QH solar modules can be installed easily and work for a long period. At the same time, they can withstand the storm, strong wind and hail impact, ect.

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