

Photovoltaic Modules

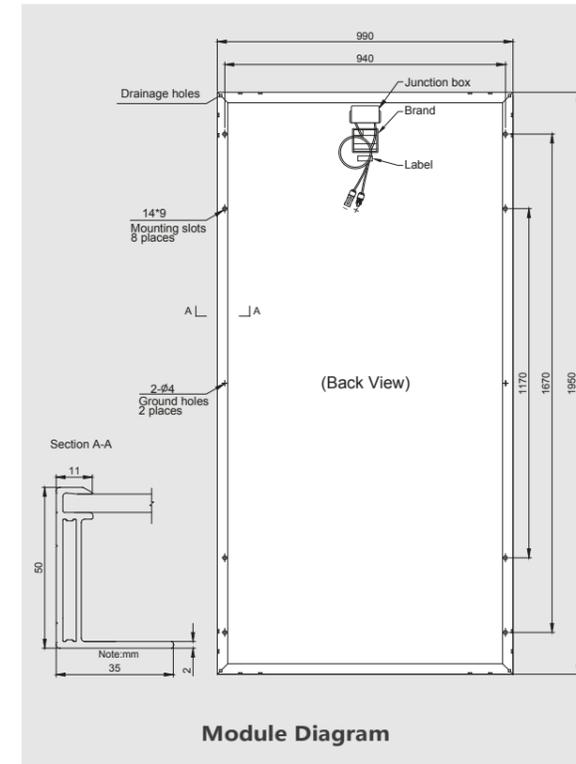
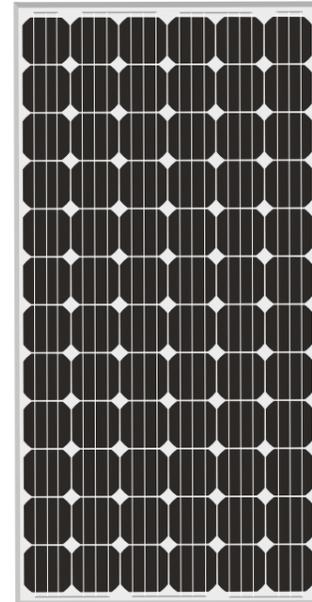
Photovoltaic modules 72pcs 156×156mm mono-crystalline silicon cell



YYM280-B-72

The YYM280 series module consists of 72pcs156×156mm mono-crystalline silicon solar cell which are in high efficiency, individually characterized and electronically matched before interconnection. Laminated with high quality toughened glass, EVA and TPT, characteristic operation of solar cells can be ensured under any climatic conditions.

After assembled by anodized aluminum alloy frame and junction box with MC connectors, the yinyang solar modules are designed for long service life, easy to install, withstand the storm, high wind and hail impact etc.



Specifications

Cell	Mono-crystalline silicon solar cells 156mm×156mm
No. of cells and connections	72(6×12)
Dimension of module	1950mm×990mm×50mm

Temperature Coefficients

Nominal Operating Cell Temperature		45°C±2°C
Short-circuit current temperature coefficient	$\alpha(I_{sc})$	0.09%/°C
Open-circuit voltage temperature coefficient	$\beta(V_{oc})$	-0.34%/°C
Peak power temperature coefficient	$\gamma(P_{max})$	-0.37%/°C

above data is only for reference
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Output

Cable	4.0mm ² (TUV)
Lengths	1100mm
Connector	MC Type

Module		YYM280-B-72										
Encapsulation		Glass/EVA/Cells/ EVA/TPT										
Size and Number of cells		156mm×156mm 72/6×12pcs										
Maximum Power (Pmax)	W	240	245	250	255	260	265	270	275	280	285	290
Power Tolerance		± 3%										
Open Circuit Voltage (Voc)	V	43.6	43.8	44.0	44.2	44.3	44.3	44.6	44.6	44.8	44.8	44.8
Short Circuit Current (Isc)	A	7.65	7.75	7.87	7.98	8.02	8.08	8.12	8.28	8.33	8.38	8.41
Maximum Power Voltage (Vmp)	V	34.4	34.5	34.7	34.8	34.8	34.9	35.0	35.2	35.3	35.5	35.7
Maximum Power Current (Imp)	A	6.98	7.10	7.23	7.33	7.47	7.59	7.71	7.81	7.93	8.03	8.12
Max.syst. Oper. voltage	V	1000V										
Diodes		6 by-pass										
Dimension	mm	1950×990×50										
Weight	kg	24										
Operate Temp. scope	°C	-40/+85										
Relative humidity		0 to 100%										
Resistances		227g steel ball fall down from 1m height and 60m/s wind										
Warranty		Pm is not less than 90% in 10 years and 80% in 25 years										

Test condition: @STC 1000W/m², AM1.5, 25°C

