

SOLAR MODULES

MD280P(72)



Characteristics

Model	MD290P(72)	MD285P(60)	MD280P(60)	MD275P(60)
Module Efficiency	14.95%	14.69%	14.43%	14.17%
Open circuit voltage(Voc)	44.4V	44.3V	44.2V	44.1V
Optimum operating voltage(Vmp)	35.9V	35.7V	35.6V	35.4V
Short circuit current(Isc)	8.62A	8.49A	8.37A	8.24A
Optimum operating current(Imp)	8.08A	7.99A	7.87A	7.77A
Maximum Power at STC(Pm)	290Wp	285Wp	280Wp	275Wp
	MD270P(60)	MD265P(60)	MD260P(60)	
	13.91%	13.66%	13.4%	
	43.9V	43.7V	43.5V	
	35.2V	35.1V	34.9V	
	8.12A	8.01A	7.89A	
	7.68A	7.55A	7.45A	
	270Wp	265Wp	260Wp	

STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5.

Specifications

Cell	poly-crystalline silicon solar cells 156×156mm
No. of cells and connections	72(6×12)
Dimension of module (mm)	1956x992x50mm
Weight	25Kg
Power Tolerance	0~ + 3%

Limits

Operating temperature	-40°C ~ +85°C
Maximum system voltage	(IEC)1000 V DC (UL)600VDC
Maximum Series Fuse Rating	15A

Temperature and Coefficients

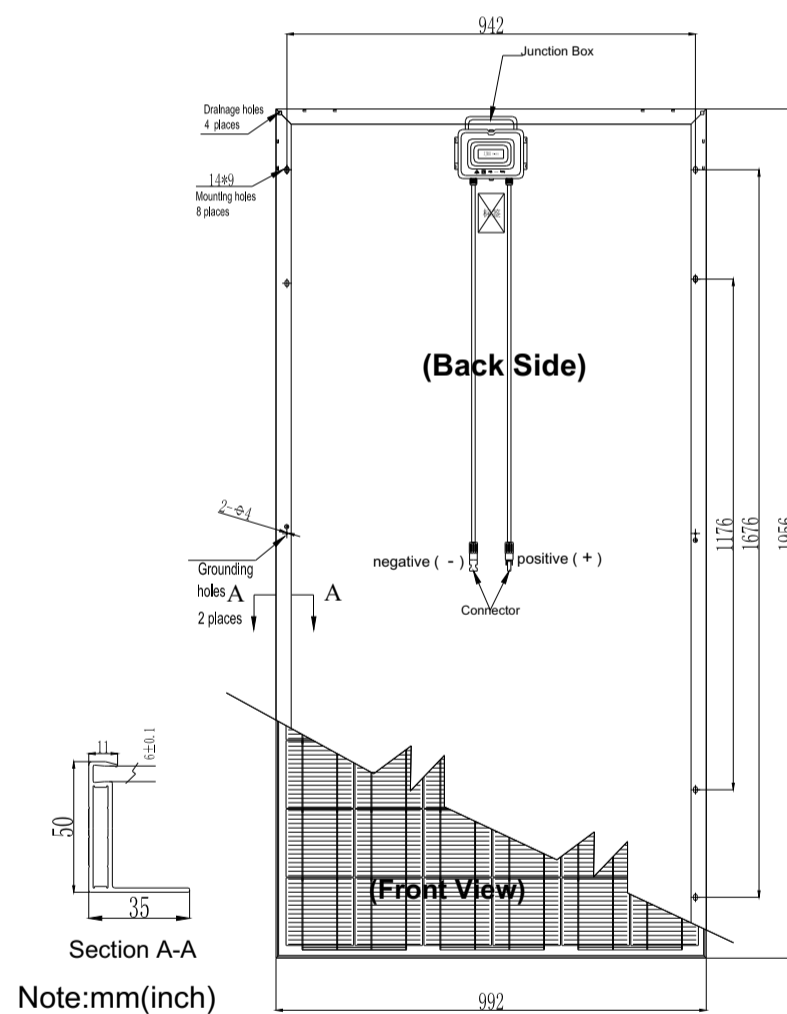
NOCT	45±2°C
Temp. Coeff.of Isc(TK Isc)	0.065%/°C
Temp. Coeff.of Voc(TK Voc)	-0.32%/°C
Temp. Coeff.of Pmax(TK Pmax)	-0.45%/°C
Maximum wind loads	2400Pa
Maximum snow load	5400Pa
Maximum Hail diameter @ 23m/s	25mm

NOCT: Nominal Operation Cell temperature

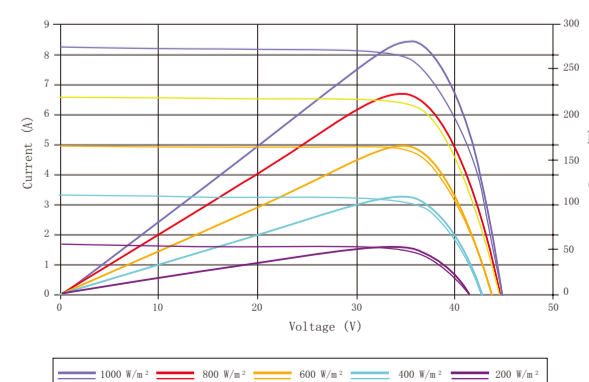
Output

Type of output terminal	Junction box
Cable	NanYang(4.0mm ²)
Asymmetrical lengths	1200mm (-), 1200mm(+)
Connection	MC4

Blueprint of the module



280W PV I-V characteristic curves



Packing Quantity

Container	20GP	40HC
Pallets per container	4	10
Pieces per container	144	400

