

SOLAR MODULES

MD280M(72)



Characteristics

Model	MD295M(72)	MD290M(72)	MD285M(72)	MD280M(72)
Module Efficiency	15.20%	14.95%	14.69%	14.43%
Open circuit voltage(Voc)	44.9V	44.8V	44.7V	44.6V
Optimum operating voltage(Vmp)	36.3V	36.2V	36.1V	36.0V
Short circuit current(Isc)	8.68A	8.55A	8.43A	8.3A
Optimum operating current(Imp)	8.13A	8.02A	7.90A	7.79A
Maximum Power at STC(Pm)	295 Wp	290Wp	285Wp	280Wp
	MD275M(72)	MD270M(72)	MD265M(72)	
	14.17%	13.91%	13.66%	
	44.5V	44.4V	44.2V	
	35.9V	35.8V	35.7V	
	8.17A	8.04A	7.93A	
	7.67A	7.55A	7.43A	
	275 Wp	270 Wp	265 Wp	

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

Specifications

Cell	Mono-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

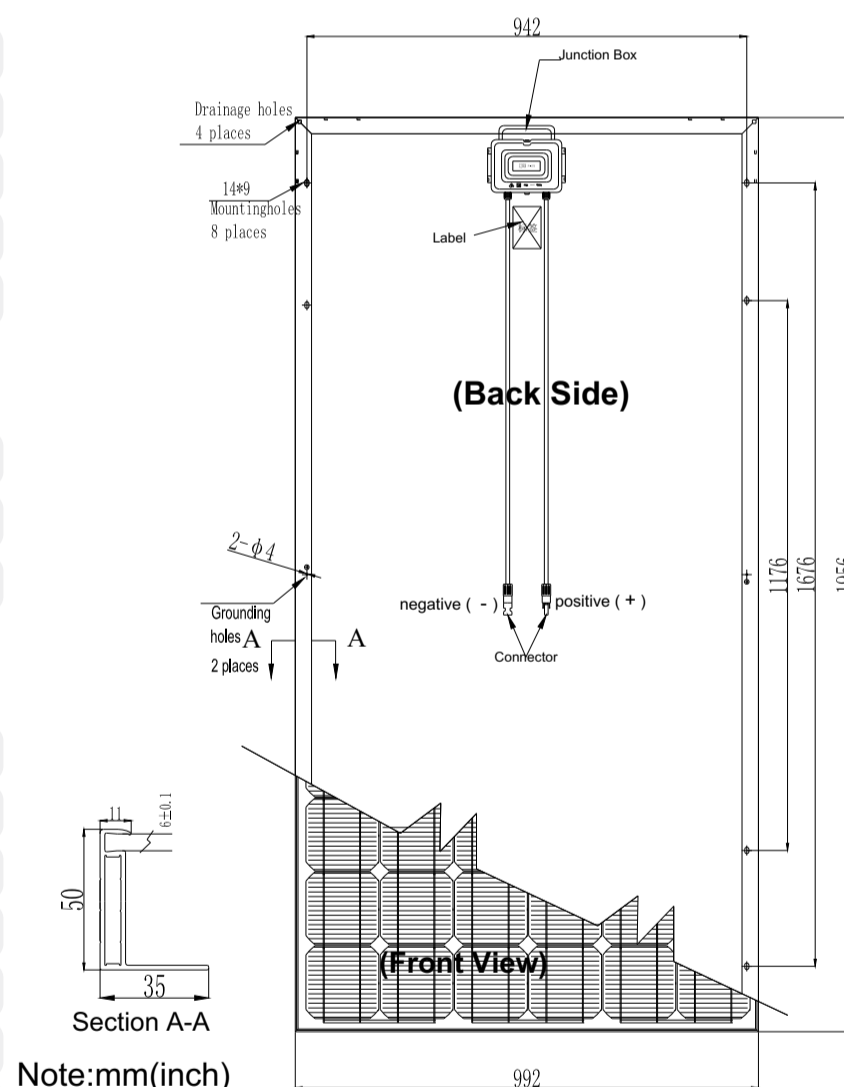
NOCT	45±2°C
Temp. Coeff.of Isc(TK Isc)	0.05%/°C
Temp. Coeff.of Voc(TK Voc)	-0.33%/°C
Temp. Coeff.of Pmax(TK Pmax)	-0.45%/°C
Maximum wind loads	2400Pa
Maximum snow load	5400Pa
Maximum Hail diameter @ 23m/s	25mm

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

