

# SOLAR MODULES

## MD210P(54)



### Characteristics

Model	MD220P(54)	MD215(54)	MD210P(54)	MD205P(54)
Module Efficiency	14.96%	14.62%	14.28%	13.94%
Open circuit voltage(Voc)	33.3V	33.2 V	32.1V	33.0V
Optimum operating voltage(Vmp)	26.9 V	26.8 V	26.7V	26.6V
Short circuit current(Isc)	8.73 A	8.56A	8.38A	8.21A
Optimum operating current(Imp)	8.18A	8.03A	7.87A	7.71A
Maximum Power at STC(Pm)	220Wp	215Wp	210Wp	205Wp

	MD200P(54)	MD195P(54)	MD190(54)
	13.60%	13.26%	12.92%
	29.9V	29.8V	29.7V
	26.5V	26.4V	26.2V
	8.84A	8.65A	8.46A
	7.55A	7.39A	7.26A
	200Wp	195Wp	190Wp

STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5.

### Specifications

Cell	poly-crystalline silicon solar cells 156×156mm
No. of cells and connections	54(6×9)
Dimension of module (mm)	1482x992x40mm
Weight	17.5Kg
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

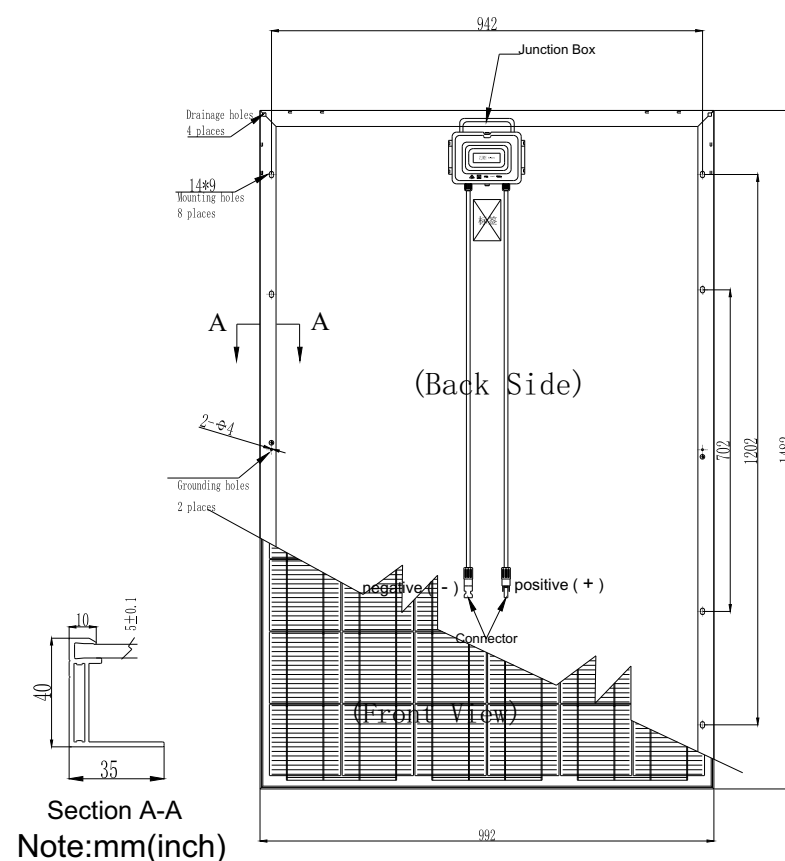
NOCT	45 ± 2°C
Temp. Coeff.of Isc(TK Isc)	0.065%/°C
Temp. Coeff.of Voc(TK Voc)	-0.32% /°C
Temp. Coeff.of Pmax(TK Pmax)	-0.45%/°C
Maximum wind loads	2400Pa
Maximum snow load	5400Pa
Maximum Hail diameter @ 23m/s	25mm

NOCT: Nominal Operation Cell temperature

### Output

Type of output terminal	Junction box
Cable	NanYang(4.0mm <sup>2</sup> )
Asymmetrical lengths	900mm (-), 900mm(+)
Connection	MC4

Blueprint of the module



210W PV I-V characteristic curves

