

SOLAR MODULES MD230P(60)



Characteristics

Model	MD245P(60)	MD240P(60)	MD235P(60)	MD230P(60)
Module Efficiency	14.97%	14.66%	14.36%	14.05%
Open circuit voltage(Voc)	37.1V	37.0V	36.9V	36.8V
Optimum operating voltage(Vmp)	30.0V	29.8V	29.7V	29.6V
Short circuit current(Isc)	8.72A	8.57A	8.42A	8.27A
Optimum operating current(Imp)	8.17A	8.06A	7.92A	7.78A
Maximum Power at STC(Pm)	245Wp	240Wp	235Wp	230Wp
	MD215P(60)	MD220P(60)	MD225P(60)	
	13.14%	13.44%	13.75%	
	36.5V	36.6V	36.7V	
	29.5V	29.6V	29.7V	
	7.79A	7.95A	8.1A	
	7.29A	7.44A	7.58A	
	215Wp	220Wp	225Wp	

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	60(6×10)
Dimension of module (mm)	1650x992x40mm
Weight	19.5Kg
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

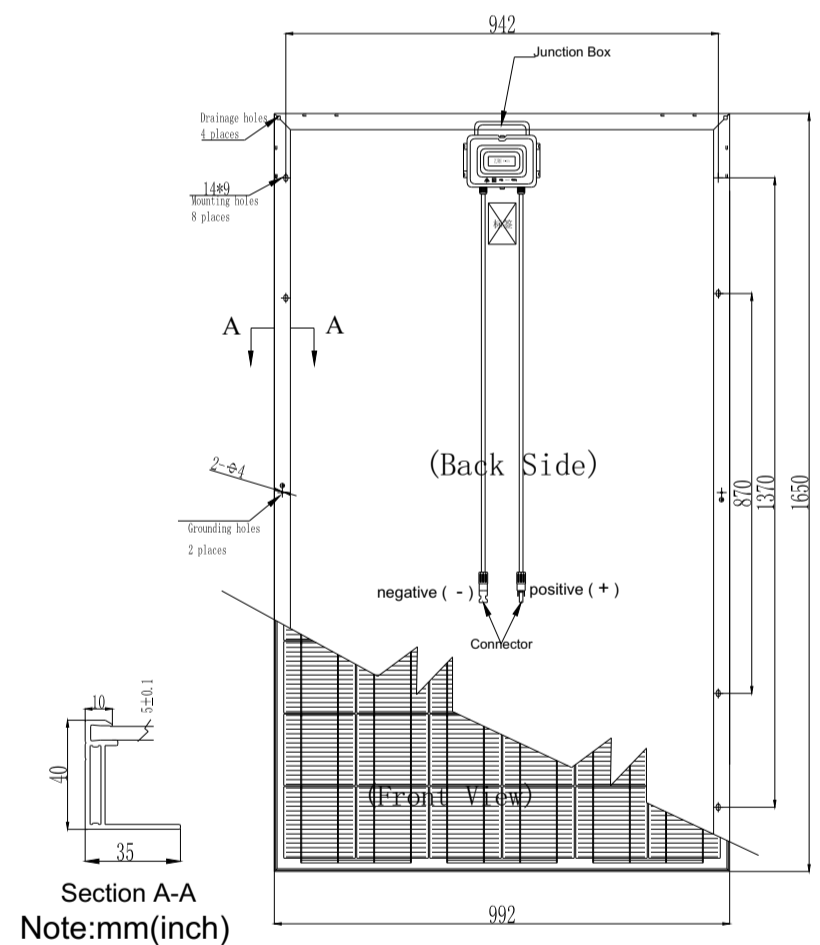
Output

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

Packing Quantity

Container	20GP	40HC
Pallets per container	6	14
Pieces per container	264	672

Blueprint of the module



230W PV I-V characteristic curves

