

## P7Y-280W-285W-290W-300W

156mm solar cells

### Electrical Data

POLY-156mm Solar cells	P7Y-280	P7Y-285	P7Y-290	P7Y-300
Nominal peak power(Pmax)	280Wp	285Wp	290Wp	300Wp
Maximum power voltage(Vmp)	35.20V	35.76V	36.35V	37.08V
Maximum power current(Imp)	7.95A	7.97A	7.98A	8.09A
Short-circuit current(Isc)	8.43A	8.45A	8.45A	8.56A
Open circuit voltage(Voc)	43.80V	44.49V	45.10V	46.12V
Optimized cell efficiency( $\eta$ )	16.60%	16.80%	17.20%	17.60%

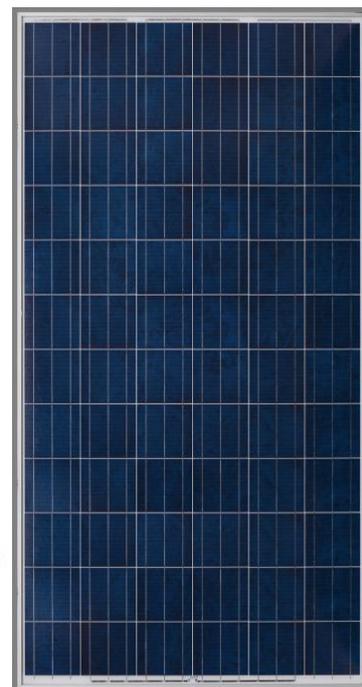
Power tolerance: 0~+5%

### Limits

Operating temperature	-40°C to +85°C
Maximum system voltage (IEC/UL standard)	1000VDC/600VDC



25-year performance warranty  
10-year workmanship warranty



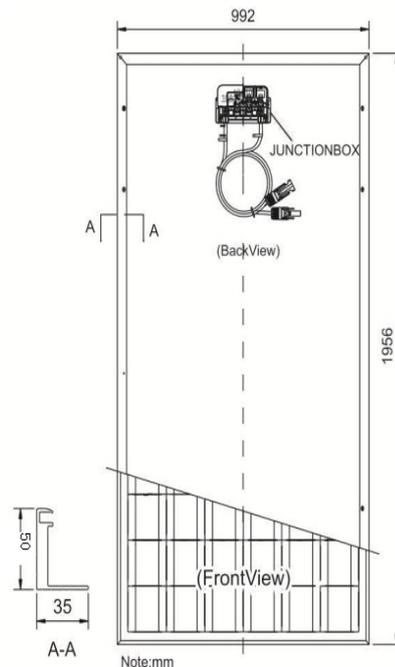
### Temperature and Coefficients

NOCT	48°C±2°C		
Current temperature coefficient	Isc	%/°C	0.09
Voltage temperature coefficient	Voc	%/°C	-0.43
Power temperature coefficient	Pmax	%/°C	-0.43

NOCT:Nominal Operation Cell Temperature

### Additional Data

Number of cells and type of connection	72,serial connection	
Dimensions	Length:1956mm Width:992mm Height:50mm	
Net weight	23.50kgs/pc	
Gross weight	520kgs/ctn(21pcs/ctn)	49.00kgs/ctn(2pcs/ctn)
Package dimension	2010x1120x1140mm	1974x1022x110mm
Container loading	506PCS/40'HQ 46PCS/PALLET	



STC: Irradiance of 1000W /m2, Air Mass of 1.5, Cell Temperature of 25°C

Guaranteed Power Output	15 year:90% of its nominal power rating
Warranted Tolerance: ±5%	25 year:80% of its nominal power rating
Impact Resistance	Can bear the force that is generated by one 227g steel ball fall down from 1m height
Warranty period	10 years:Materials and workmanship defects
Certificates	TUV,IEC,CE,MCS,UL1703/CSA,CEC,ISO
Cells	Polycrystalline silicon photovoltaic cell

### Characteristics

