

# Solarfennel Corp.

PS7A-280-285-290



## Electrical Data

POLY-156mm Solar cells	PS7A-280	PS7A-285	PS7A-285
Nominal peak power(Pmax)	280Wp	285Wp	290Wp
Maximum power voltage(Vmp)	35.2V	35.76V	36.35V
Maximum power current(Imp)	7.95A	7.97A	7.98A
Short-circuit current(Isc)	8.43A	8.45A	8.46A
Open circuit voltage(Voc)	43.8V	44.49V	45.1V
Optimized cell efficiency( $\eta$ )	16.80%	17.00%	17.20%

**Power Tolerance: 0 ~ +3%**

## Limits

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

## Temperature and Coefficients

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

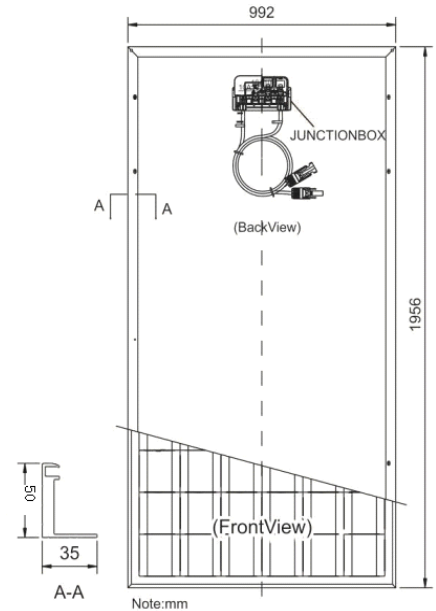
NOCT:Nominal Operation Cell Temperature

## Additional Data

Number of cells and type of connection	72,serial connection	
Dimensions	Length:1956mm Width:992mm Height:50mm	
Net weight	23.5kgs/pc	
Gross weight	520kgs/ctn(21pcs/ctn) 49kgs/ctn(2pcs/ctn) 1144lbs/ctn(21pcs/ctn)	
Package dimension	2010x1150x1250mm 1974x1022x122mm 80"x45"x49" 78"x40"x5"	
Container loading	506PCS/40'HQ 46PCS/PALLET 190PCS/20'GP 2PCS/CTN	

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

Guaranteed Power Output Warranted Tolerance: ±5%	15 year:90% of its nominal power rating
	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	UL1703/CSA, CEC.
Cells	Polycrystalline silicon photovoltaic cell



## Characteristics

Module Graph 280W

