

# SOLARTECH POWER

## SPM080P/85P/90P

### SPECIFICATIONS

CELL	Multicrystalline silicon solar cell	156mmx104mm
No. of cells and connections	36(4x9)	
Dimension of module	1014x669x35(mm)	39.9x26.3x1.38(in )
Weight	9kg	19.81b

### Characteristics

Model	SPM080P	SPM085P	SPM090P
Power at STC(Pm)	80W	85W	90W
Maximum power voltage(Vpm)	17.3V	17.9V	18.30V
Maximum power current(Ipm)	4.7A	4.84A	5.04A
Open circuit voltage(Voc)	21.9 V	21.9V	22.2V
Short circuit current(Isc)	5.1A	5.17A	5.38A
Tolerance	±5%	±5%	±5%
Module efficiency	11.79%	12.53%	13.27%

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

### Limits

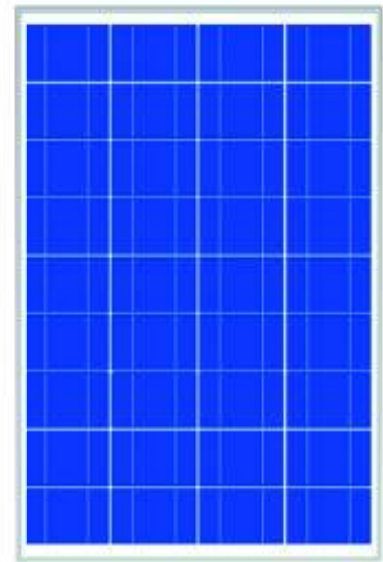
Operating temperature	-40 to +85 °C
Maximum system voltage	1000V DC
Series fuse rating	12A

### Components & Mechanical Data

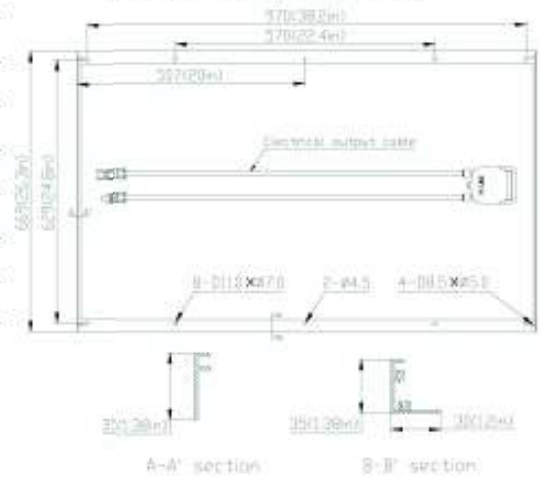
Front Glass	3.2mm tempered
Junction Box	IP-65 rated
Frame	Anodized aluminum alloy type 6063-T5
Encapsulation Material	EVA(0.5±0.05mm thickness)
Back Foil	White TPT(0.32±0.03mm thickness)
Temperature Range	-40 °C to +90 °C
Max Load	5400Pa

### Temperature coefficient

Nominal Operation Cell Temperature	48 °C ±2 °C
Current temperature coefficient	0.06±0.01 %/K
Voltage temperature coefficient	- (78±10) mv/k
Power temperature coefficient	- (0.5±0.05) %/k



Back of the module



### IV CURVES

