

SOLARTECH POWER

SPM018P/020P/022P

SPECIFICATIONS

CELL	Multicrystalline silicon solar cell	156mmx26mm
No. of cells and connections	36(2x18)	
Dimension of module	550x350x25(mm)	21.7x13.8x0.98(in)
Weight	2.8kg	6.171b

Characteristics

Model	SPM018P	SPM020P	SPM022P
Power at STC(Pm)	18W	20W	22W
Maximum power voltage(Vpm)	16.5V	17.2V	18.1V
Maximum power current(Ipm)	1.10A	1.17A	1.24A
Open circuit voltage(Voc)	21.0V	21.7V	22.1V
Short circuit current(Isc)	1.1A	1.25A	1.32A
Tolerance	±5%	±5%	±5%
Module efficiency	8.9%	10.0%	10.9%

STC: Temperature 25°C, Irradiance 1000W/m², AM=1.5

Limits

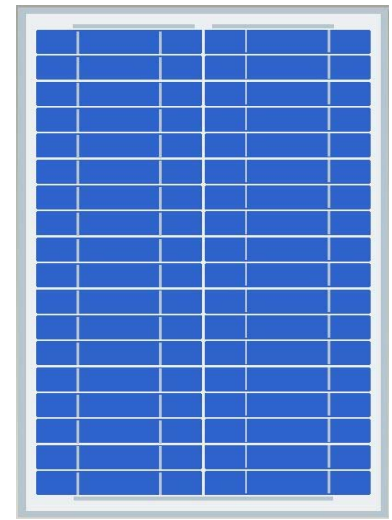
Operating temperature	-40 to +85°C
Maximum system voltage	600V DC
Series fuse rating	10A

Components & Mechanical Data

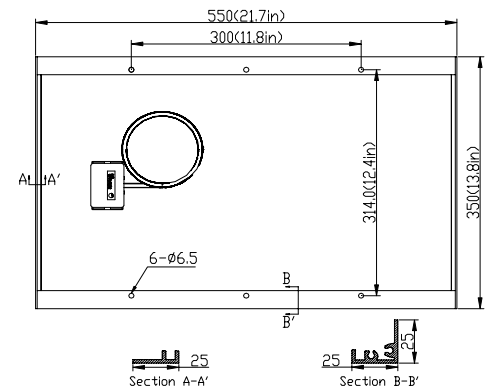
Front Glass	3.2mm tempered
Junction Box	IP-65 rated
Frame	Anodized aluminum alloy type 6063-T5
Encapsulation Material	EVA(0.5±0.05mm thickness)
Back Foil	White PET(0.2±0.03mm thickness)
Temperature Range	-40°C to +90°C
Max Load	5400Pa

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

