

SOLARTECH POWER

SPM050WP

SPECIFICATIONS

CELL	Multicrystalline silicon solar cell	156mmx32.5mm
No. of cells and connections	68(4x17)	
Dimension of module	652x639x35(mm)	25.7x25.2x1.38 (in)
Weight	6kg	13.21b

Characteristics

Model	SPM050WP
Power at STC(Pm)	50W
Maximum power voltage(Vpm)	34.0V
Maximum power current(Ipm)	1.5A
Open circuit voltage(Voc)	41.4V
Short circuit current(Isc)	1.63A
Tolerance	± 5%
Module efficiency	12.0%

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

Limits

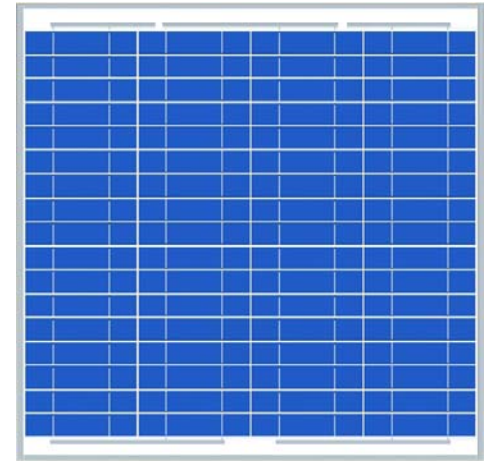
Operating temperature	-40 to +85°C
Maximum system voltage	1000V DC
Series fuse rating	12A

Components & Mechanical Data

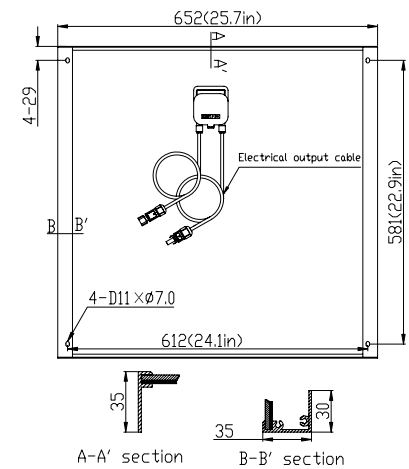
Front Glass	3.2mm tempered
Junction Box	IP-65 rated
Frame	Anodized aluminum alloy type 6063-T5
Encapsulation Material	EVA(0.5±0.05mm thickness)
Back Foil	White TPT(0.32±0.03mm thickness)
Temperature Range	-40°C to +90°C
Max Load	5400Pa

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

