

N-Series 90W PV Module SPM090P-TS-N

Solartech N-Series Modules

Solartech photovoltaic N-Series Modules are constructed with high efficient polycrystalline solar cells and produce higher output per module than others in it class. This industrial grade module is an industry standard among various industry professionals.

Features

• Accessible junction box with 2 MC4 style 3ft leads for ease of installation.

 (EVA) with TPT cushions the solar cells within the laminate an ensures the operating characteristics of the solar cells under virtually any climatic condition
Rigid anodized aluminum frame and low iron tempered glass

• Easily accessible grounding points on all four corners for fast installation

Proven junction box technology

Reliability

Proven superior field performance

Tight power tolerance

Qualifications and Certifications



Applications

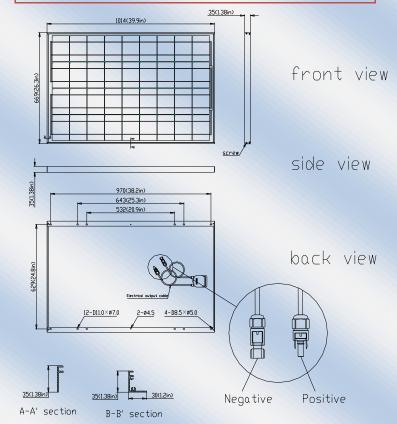
- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry
- •SCADA, RTU, GPS
- Marine
- Area Lighting & Sign
- •Wi-Fi & Wi=Max
- Fence & Gate

Model Number SPM090P-TS-F

Electrical Characteristics

characteristics		
Max power(Pm)	90W	
Maximum power voltage(Vpm)	18.3V	
Maximum power current (Ipm)	5.04A	
Short circuit current (Isc)	5.38A	
Open circuit voltage (Voc)	22.2V	
Module efficiency	13.27%	
Tolerance	±5%	
Nominal Voltage	12V	
Temperature coefficient of Voc	-0.36%/K	
Temperature coefficient of Pm	-0.46%/K	
Temperature coefficient of Isc	0.05%/K	
NOCT	48℃±2℃	
Maximum series fuse rating	12A	
Maximum system voltage	600V	

Tempered glass, silicon cell, EVA, Polyester with Tedlar
36 cells (156mm x 104mm) in a 4x9 matrix connected in series
High transmission 3.2mm(1/8") glass
EVA(Double layers)
White polyester
Anodized aluminum
IP65, UL94-5VA material
Schottky by-pass diodes
39.9in(1014mm)x26.3in(669mm)x1.38in(35mm)
19.8lb (9.0kg)
-40°C∼90°C
<90%



IV Curves IV CURVES 6.0 96 80 Current(A) Power(W) 64 3.6 48 2.4 32 1.2 16 0 n 15 10 20 25 Voltage(V)

Warranty

25-year limited warranty of 80% power output;12-year limited warranty of 90% power output;5-year limited warranty of materials and worksmanship

Certifications

UL 1703 certification

*Subject to simulator measurement uncertainty of +/- 5%.

Solartech Power, Inc. reserves the right to modify these specifications without notice. For more detailed specifications, visit www.solartechpower.com