

F-Series 45W PV Module SPM045P-F

Solartech F-Series Modules

Solartech photovoltaic F-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

- Class 1, Division 2, (C1D2) Group A,B,C and D • Accessible junction box with 4-1/2" knockout 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



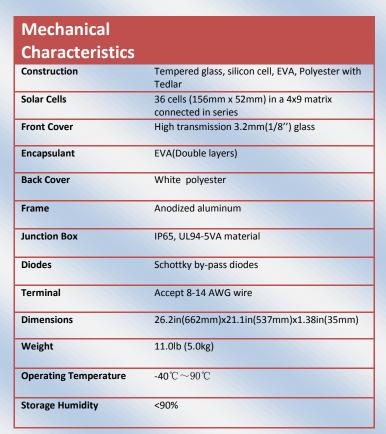
Applications

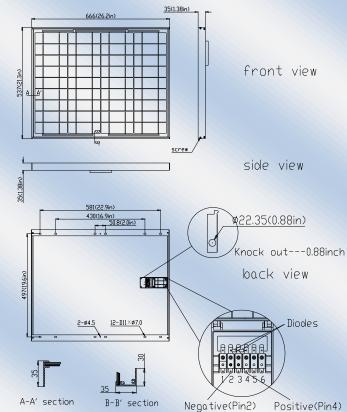
- Traffic & Safety
- Federal Government
- •Oil & Gas
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry
- •SCADA, RTU, GPS
- Marine
- Area Lighting & Sign

Model Number SPM045P-F

Electrical Characteristics

Max power(Pm)	45W	
Maximum power voltage(Vpm)	18.3V	
Maximum power current (Ipm)	2.52A	
Short circuit current (Isc)	2.69A	
Open circuit voltage (Voc)	22.2V	
Module efficiency	13.1%	
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	





IV Curves IV CURVES 3.0 48 40 2 Current(A) Power(W) 32 1.8 24 1.2 16 0.6 8 Ω 0 15 10 Voltage(V)

Warranty

- 25-year limited warranty of 80% power output;
- 12 year limited warranty of 90% power output;2-year limited warranty of materials and worksmanship*

Certifications

UL 1703 certification

ETL Class I , Division 2, Groups A, B, C and D certification