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# **EnergyPal**

Solar Panel Guide Specification Data Sheet

Solartech Power, Inc. SPM090-100P-TS-F SPM100P-TS-F

Also available on the web at EnergyPal.com/solartech-power-inc-solar-panels/spm100p-ts-f



# F-Series 90W PV Module SPM090P-TS-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**

- 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**



UL No.: E330673 TUV No.:0000022551 IEC No.:C1-ASN07001 ETL No.:4001057

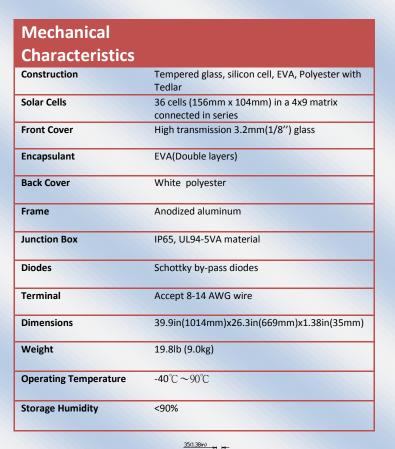
## **Applications**

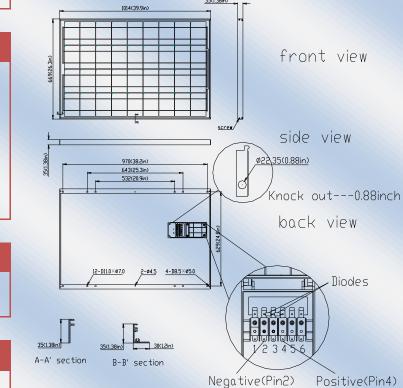
- Traffic & Safety
- Federal Government
- •Oil & Gas
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry
- •SCADA, RTU, GPS
- Marine
- Area Lighting & Sign

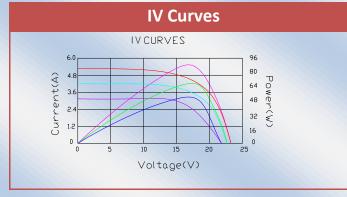
## Model Number SPM090P-TS-F

# 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%/К
Temperature coefficient of Pm	-0.46%/K
Temperature coefficient of Isc	0.05%/K
NOCT	48°C±2°C
Maximum series fuse rating	12A
Maximum system voltage	1000V







# 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

- IEC61215, TUV certification
- UL 1703 certification
- ETL Class I , Division 2, Groups C and D certification



# F-Series 100W PV Module SPM100P-TS-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**

• 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**



UL No.: E330673 TUV No.:0000022551 IEC No.:C1-ASN07001 ETL No.:4001057

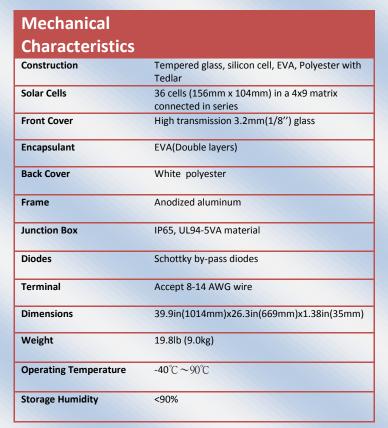
## **Applications**

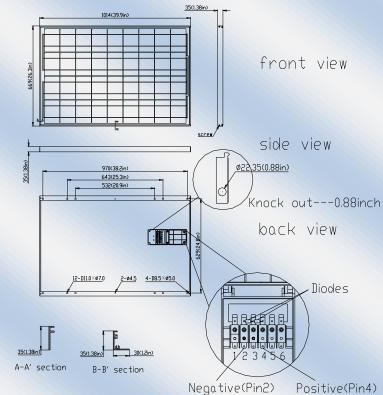
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- Federal Government
- Oil & Gas
- Security
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- Emergency Power
- Telemetry
- •SCADA, RTU, GPS
- Marine
- Area Lighting & Sign

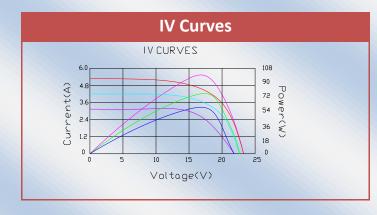
# Model Number SPM100P-TS-F

# Electrical Characteristics

Characteristics	
Max power(Pm)	100W
Maximum power voltage(Vpm)	18.6V
Maximum power current (Ipm)	5.38A
Short circuit current (Isc)	5.76A
Open circuit voltage (Voc)	22.8V
Module efficiency	14.8%
Tolerance	±5%
Nominal Voltage	12V
Temperature coefficient of Voc	-0.36%/K
Temperature coefficient of Pm	-0.46%/K
Temperature coefficient of lsc	0.05%/K
NOCT	<b>48°</b> C <b>±2°</b> C
Maximum series fuse rating	12A
Maximum system voltage	1000V







# 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

- IEC61215, TUV certification
- UL 1703 certification

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