J-Series
20W PV Module
SPM020P-BP

Solartech J-Series Modules

Solartech photovoltaic J-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

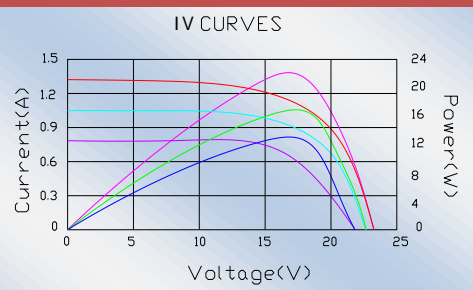
- Traffic & Safety
- Federal Government
- Oil & Gas
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry
- SCADA, RTU, GPS
- Marine
- Area Lighting & Sign

Model Number
SPM020P-BP

Electrical Characteristics

Max power(Pm)	20W
Maximum power voltage(Vpm)	16.8V
Maximum power current (Ipm)	1.19A
Short circuit current (Isc)	1.29A
Open circuit voltage (Voc)	21.0V
Module efficiency	9.4%
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	10A
Maximum system voltage	1000V

IV Curves



Warranty

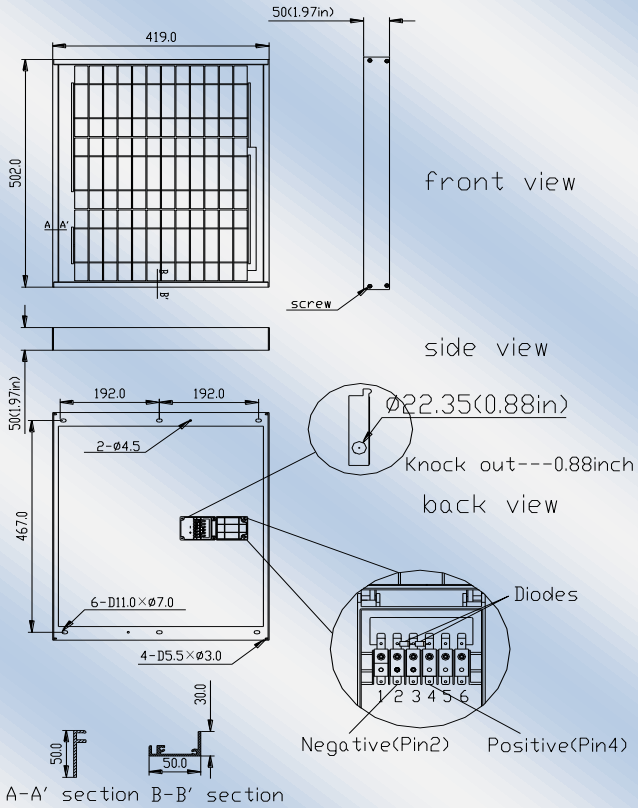
25-year limited warranty of 80% power output;
12-year limited warranty of 90% power output;
5-year limited warranty of materials and worksmanship

Certifications

IEC61215, TUV certification

UL 1703 certification

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

Mechanical Characteristics

Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x 26mm) in a 3x12 matrix connected in series
Front Cover	High transmission 3.2mm(1/8'') glass
Encapsulant	EVA(Double layers)
Back Cover	White polyester
Frame	Anodized aluminum
Junction Box	IP65, UL94-5VA material
Diodes	Schottky by-pass diodes
Terminal	Accept 8-14 AWG wire
Dimensions	16.5in(419mm)x19.8in(502mm)x1.97in(50mm)
Weight	7.26lb (3.3kg)
Operating Temperature	-40℃～90℃
Storage Humidity	<90%