

M-Series 20W PV Module SPM020P-D

Solartech M-Series Modules

Solartech photovoltaic M-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

• An UL-approved AWG 18 cable is put into the fully sealed junction box (weather and UV resistant) material meet UL1703

 (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



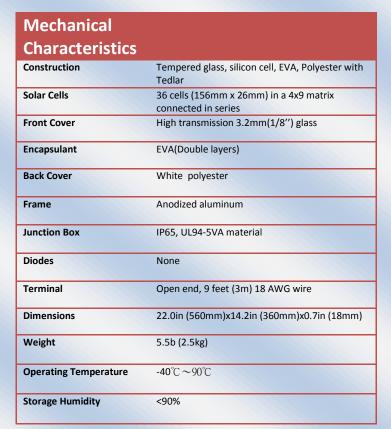
Applications

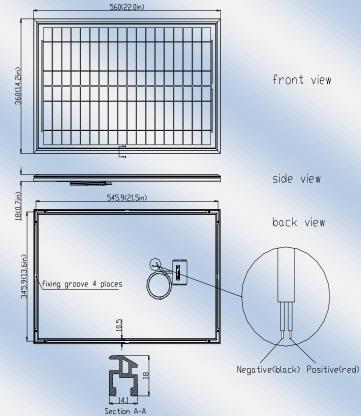
- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- Telemetry
- •Wi-Fi & Wi-Max
- Gate & Fence

Model Number SPM020P-D

Electrical Characteristics

characteristics	
Max power(Pm)	20W
Maximum power voltage(Vpm)	17.2V
Maximum power current (Ipm)	1.17A
Short circuit current (Isc)	1.25A
Open circuit voltage (Voc)	21.7V
Module efficiency	10.0%
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	48°C±2°C
Maximum series fuse rating	10A
Maximum system voltage	600V





IV Curves IV CURVES 1.5 24 50 1.2 Current(A) Power(W) 16 0.9 12 0.6 8 0.3 4 n 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 C and D certification