



SOLARTECH[®]
POWER, INC.

M-Series 5W PV Module SPM005P-Z

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 its 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 and IFC61730 standard
- (EVA) with TPT cushions the solar cells within the laminate and 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

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

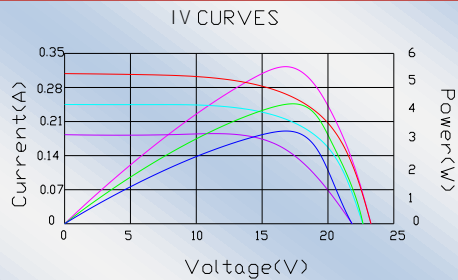
Electrical Characteristics

Max power(Pm)	5W
Maximum power voltage(Vpm)	17.1V
Maximum power current (Ipm)	0.29A
Short circuit current (Isc)	0.31A
Open circuit voltage (Voc)	21.7V
Module efficiency	6.4%
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°C±2°C
Maximum series fuse rating	10A
Maximum system voltage	1000V

Mechanical Characteristics

Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (65mm x 15.6mm) in a 4x9 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	8feet (2.4m) 18 AWG Wire with blocking diode
Dimensions	12.9in (327mm)x8.5in (216mm)x0.7in (18mm)
Weight	2.2lb (1.0kg)
Operating Temperature	-40°C ~ 90°C
Storage Humidity	<90%

IV Curves



Warranty

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

Certifications

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

