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Solar Panel Guide Specification Data Sheet

Solartech Power, Inc. SPM040-150P-WP-F SPM150P-WP-F



W-Series 40W PV Module SPM040P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

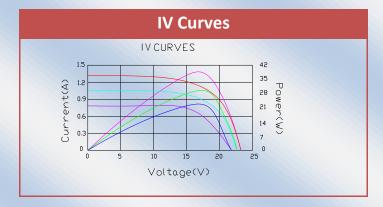
Qualifications and Certifications





- 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

Electrical	
Characteristics	
Max power(Pm)	40W
Maximum power voltage(Vpm)	33.9V
Maximum power current (Ipm)	1.21A
Short circuit current (Isc)	1.30A
Open circuit voltage (Voc)	41.3V
Module efficiency	11.2%
Tolerance	±5%
Nominal Voltage	24V
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	600V

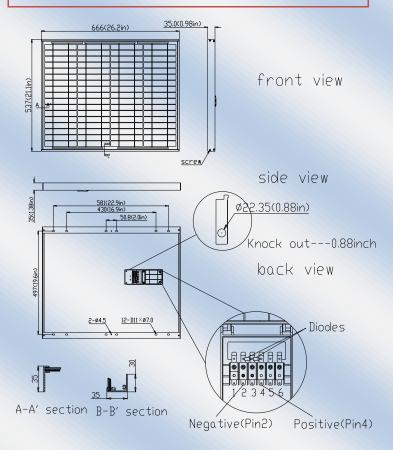


- 25-year limited warranty of 80% power output;
- 12 year limited warranty of 90% power output;
- 2-year limited warranty of materials and worksmanship*

Certifications

UL 1703 certification

Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x26mm) in a 4x17 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	26.2in(666mm)x21.1in(537mm)x1.38in(35mm)
Weight	11.0lb (5.0kg)
Operating Temperature	-40°C∼90°C
Storage Humidity	<90%





W-Series 45W PV Module SPM045P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

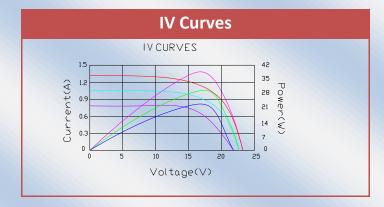
Reliability

- Proven superior field performance
- Tight power tolerance



- Traffic & Safety
- Federal Government
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- Weather & Environmental Monitoring
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- Emergency Power
- Telemetry
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- Marine
- Area Lighting & Sign

Electrical		
Characteristics		
Max power(Pm)	45W	
Maximum power voltage(Vpm)	34.2V	
Maximum power current (Ipm)	1.32A	
Short circuit current (Isc)	1.51A	
Open circuit voltage (Voc)	43.1V	
Module efficiency	12.1%	
Tolerance	±5%	
Nominal Voltage	24V	
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	600V	



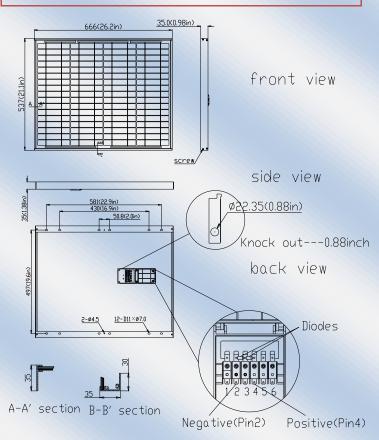
12 year limited warranty of 80% power output

2-year limited warranty of materials and worksmanship*

Certifications

UL 1703 certification

Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x26mm) in a 4x17 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	26.2in(666mm)x21.1in(537mm)x1.38in(35mm)
Weight	11.0lb (5.0kg)
Operating Temperature	-40℃~90℃
Storage Humidity	<90%





W-Series 55W PV Module SPM055P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

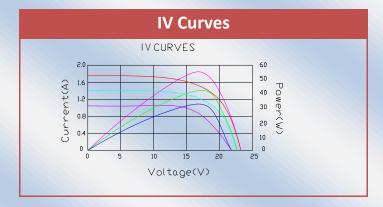






- Traffic & Safety
- Federal Government
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- Area Lighting & Sign

Electrical	
Characteristics	
Max power(Pm)	55W
Maximum power voltage(Vpm)	34.2V
Maximum power current (Ipm)	1.61A
Short circuit current (Isc)	1.85A
Open circuit voltage (Voc)	42.1V
Module efficiency	12.6%
Tolerance	±5%
Nominal Voltage	24V
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	600V



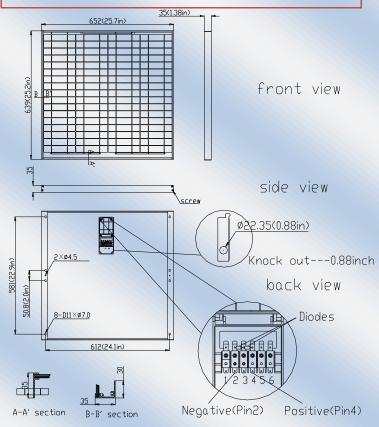
25-year limited warranty of 80% power output;

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

Certifications

UL 1703 certification

Machanical	
Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x32.5mm) in a 4x17 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	25.7in(652mm)x25.2in(639mm)x1.38in(35mm)
Weight	13.2lb (6.0kg)
Operating Temperature	-40℃~90℃
Storage Humidity	<90%





W-Series 65W PV Module SPM065P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

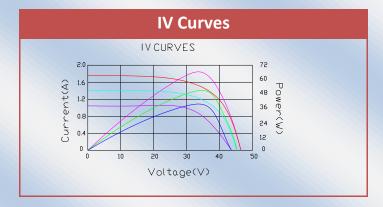
Qualifications and Certifications





- Traffic & Safety
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- Area Lighting & Sign

Electrical	
Characteristics	
Max power(Pm)	65W
Maximum power voltage(Vpm)	36.0V
Maximum power current (Ipm)	1.81A
Short circuit current (Isc)	1.95A
Open circuit voltage (Voc)	43.0V
Module efficiency	12.2%
Tolerance	±5%
Nominal Voltage	24V
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	600V



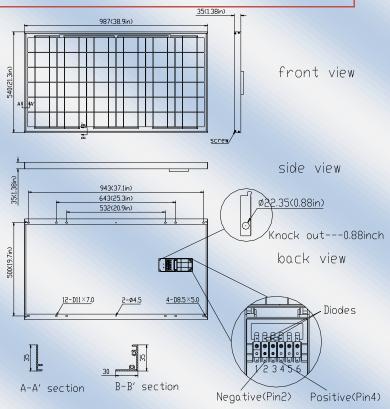
25-year limited warranty of 80% power output;

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

Certifications

UL 1703 certification

Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x 39mm) in a 4x17 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	38.9in(987mm)x21.3in(540mm)x1.38in(35mm)
Weight	15.4lb (7.0kg)
Operating Temperature	-40℃~90℃
Storage Humidity	<90%





W-Series 85W PV Module SPM085P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

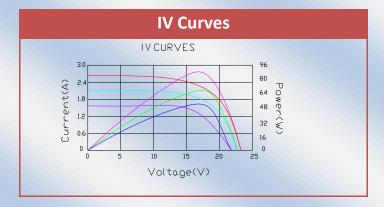






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- Weather & Environmental Monitoring
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- Emergency Power
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- Marine
- Area Lighting & Sign

Electrical	
Characteristics	
Max power(Pm)	85W
Maximum power voltage(Vpm)	34.5V
Maximum power current (Ipm)	2.48A
Short circuit current (Isc)	2.62A
Open circuit voltage (Voc)	42.1V
Module efficiency	12.6%
Tolerance	±5%
Nominal Voltage	24V
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	600V



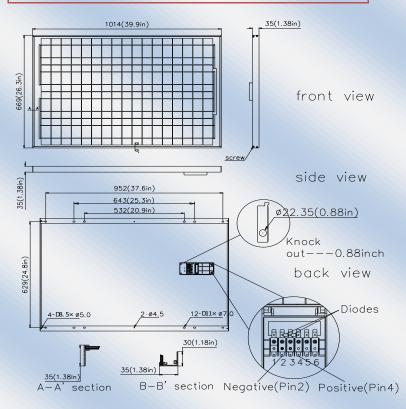
25-year limited warranty of 80% power output;

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

Certifications

UL 1703 certification

Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x 52mm) in a 4x17 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	39.9in(1014mm)x26.3in(669mm)x1.38in(35mm)
Weight	19.8lb (9.0kg)
Operating Temperature	-40℃~90℃
Storage Humidity	<90%





W-Series 90W PV Module SPM090P-WP-F

Solartech W-Series Modules

Solartech photovoltaic W-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

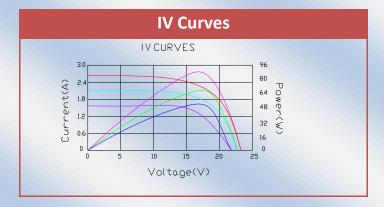






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- Weather & Environmental Monitoring
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- Emergency Power
- Telemetry
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- Marine
- Area Lighting & Sign

90W	
35.0V	
2.59A	
2.72A	
42.6V	
13.4%	
±5%	
24V	
-0.36%/K	
-0.46%/K	
0.05%/K	
48℃±2℃	
12A	
600V	
	35.0V 2.59A 2.72A 42.6V 13.4% ±5% 24V -0.36%/K -0.46%/K 0.05%/K 48°C±2°C 12A



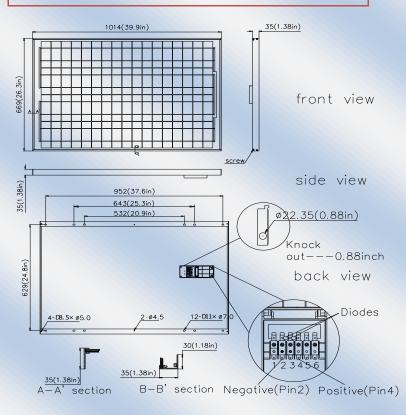
25-year limited warranty of 80% power output;

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

Certifications

UL 1703 certification

Mechanical	
Characteristics	
Construction	Tempered glass, silicon cell, EVA, Polyester with Tedlar
Solar Cells	36 cells (156mm x 52mm) in a 4x17 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	39.9in(1014mm)x26.3in(669mm)x1.38in(35mm)
Weight	19.8lb (9.0kg)
Operating Temperature	-40℃~90℃
Storage Humidity	<90%





ELECTRICAL CHARACTERISITICS				
Model	SPM150P-WP-F			
Power at STC(Pm)	150W			
Maximum power voltage(Vpm)	34. 8V			
Maximum power current(Ipm)	4. 3A			
Open circuit voltage(Voc)	42. 8V			
Short circuit current(Isc)	4. 5A			
Tolerance	±5%			
Module efficiency	15. 5%			
Standard test conditions	Temperature 25°C, Irradiance 1000W/m², AM=1.5			
Maximum system voltage	600V DC	Series fuse rating	10A	
Temperature coefficient	Isc:0.05%/K	Voc:-0.36%/K	Pmax:-0.46%/K	

Specifications			
Cell	Polycrystalline silicon solar cell, (156mmx78mm)		
No. of cell and connection	68 (4x17)		
Dimension	1466mm (57.7in) x660mm (26.0in) x50mm (1.97in)		
Weight	13KG		

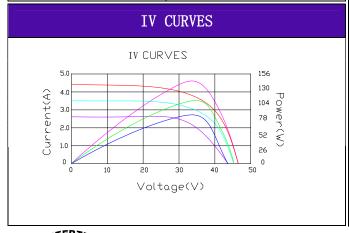
AMBIENT CONDITIONS

Operating Temperature −40°C to +85°C

Storage Humidity <90%

Output

Type of output terminal Junction box
Cable



OUTLINE DIMENSIONS 50(1.97in) 1466(57.7in) 660(26.0in) <u>SCRE</u>W 1389(54.7in) 1000(39.37in) 643(25.3in) 615(24,2in) 4-D5.5ר3.0 12-D12.7×ø9.3 2-ø4.5 50(1.97in) 35(1.38in) 50(1.97in) A-A' section B-B' section



UL STD NO 1703 ULC/ORD STD NO C1703 Class 1, Division 2 A, B, C and D,

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