

TEM165-180M-A

125Mono-crystalline

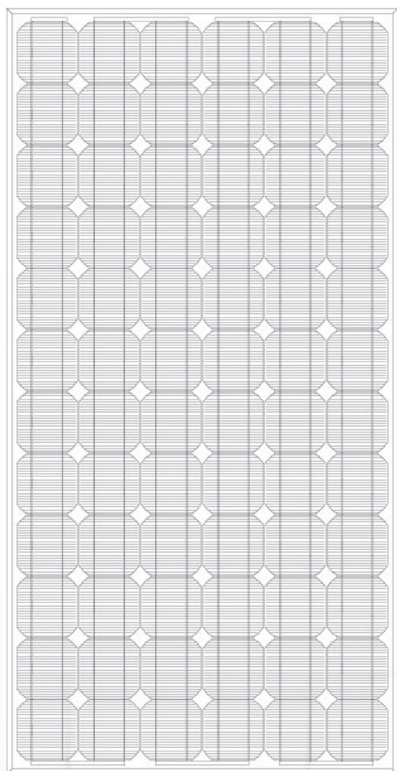
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Production description

TEM165-180M solar module is connected in series by 72pcs of 125mm x 125mm crystalline cells, the product performance is produced according to IEC 61215 and IEC 61730 Standard. It can be also tailored to special requirements of customers.

INNOVOSOLAR Advantage

- Highly transparent, low-iron, and tempered glass and antireflective coating increases energy yield
- Integrated bypass diodes to protect the solar cell circuit from hot spots during partial shadowing
- All modules manufactured in China at an ISO 9001 and 14001 certified factory
- Supplying clean, quiet and reliable electricity generation
- Easily installed ground, roof, building face or tracking system
- High conversion efficiency, long life, convenient installation, wind protection, hailstone protection
- High quality product warranty for 25 years



Projects Applications

- Large on / off – grid solar power stations
- Commercial, industrial and public utility applications
- Residential roof-integrated PV system
- Rural electrifications
- Other industrial and consumer applications

INNOVOSOLAR Installation

- INNOVOSolar modules should be installed in a location where they will receive maximum sunlight throughout the year
- In order to generate more power, which should be installed at the same orientation and avoid trees, buildings or obstructions when choose the site
- Under most weather conditions, normal rainfall is sufficient to keep the SPV module glass surface clean

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Specification

Cell	Mono-crystalline 125mm x 125mm
No. of cells and connection	72 in series (8 x 12)
Weight	17KG
Dimension	1580 x 808 x 40 (mm)
Carton	1645*878*110 (mm) 2pcs
Pallets	1670*930*135 (mm) 38pcs
Produced in accordance with	IEC 61215 and IEC 61730
Rohs	IECQ Certification

Electrical Characteristics

STC: Irradiance 1000W/m², module temperature 25°C, AM – 1.5

Power	165W	170W	175W	180W
Open circuit voltage	43.7V	43.9V	44.0V	44.5V
Maximum power voltage	35.0V	35.5V	35.6V	36.0V
Short circuit current	5.14A	5.25A	5.40A	5.45A
Maximum power current	4.71A	4.79A	4.92A	5.00A
Encapsulated solar cell efficiency	15.5%	16.0%	16.5%	17.0%
Insulation	≥ 100MΩ			
Maximum system voltage	1000V			
Voltage standoff	AC 2000 DC 3000V			
Series fuse rating	10A			

Physical Characteristics

Operating temperature	-40 °C to + 90 °C
Storage temperature	-40 °C to + 90 °C
Pressure Bearing	≥ 2400Pa
Wind Bearing	≥ 5400Pa
Hall Impact Test	225g steel ball drops from height of 1m

Temperature Coefficients

Specifications included in this datasheet are subject to change without prior notice.

NOCT	45 °C ± 2 °C
Temperature Coefficient of ISC	+0.05%/ °C
Temperature Coefficient of VOC	-0.34%/ °C
Temperature Coefficient of Pm	-0.5%/ °C
Power output tolerance	± 3%

