

Technical Data

Product: Mono-crystalline silicon solar PV module

Rated Power: **50Wp**

1 Electrical Characteristics:

At STC: 1000W/m², Cell temperature 25°C, AM1.5

Module type	RT50WM
Rated Power	50Wp
Tolerance	±5%
Open Circuit Voltage (V_{oc})	22.8V
Short Circuit Current (I_{sc})	2.90A
Max. Power Voltage (V_m)	18.6V
Max. Power Current (I_m)	2.70A
Temperature coefficients of I_{sc} (%)	0.10/°C
Temperature coefficients of V_{oc} (%)	-0.33/°C
Temperature coefficients of P_m (%)	-0.23/°C
Module Efficiency (%)	≥14.70%
package	240pcs/pallet

2 Overall Characteristics:

- 36 Monocrystalline photovoltaic Cells
- Size: 420*670*30mm (±5mm)
- Weight: 4kg
- Glass 3.2mm tempered
- EVA encapsulated
- Glass Foil Sandwich Laminated
- Sandblasting anodizing Aluminum frame
- IEC 5400Pa tested
- Hail up to 25mm diameter, 80 Km/h tested
- Temperature Range: -40 to +85°C
- Nominal operating cell temperature (NOCT): 47°C

3 Electrical connection:

- Junction Box IP67
- 1 Bypass Diodes, nominal current 15A
- Solar Cable 2.5mm² 600mm
- Module connection max 700 DC in series
- Limiting reverse current $I_r=0.2A$

4 Certificates

- TUV IEC 61215
- TUV IEC 61730-01/02
- CE
- ISO 9001:2015
- ISO 14001:2015

