# MC-SP50-GCS





#### Features:

- High efficiency.
- High transparent low-iron, tempered glass.
- Unique techniques give the panel following features: aesthetic appearance, with stands high wind-pressure and snow load, and easy installation.
- Outstanding low-light performance.
- Nominal DC for standard output.
- Unique technology ensure that problems of water freezing and warping do not occur.
- Design to meet unique demand of customer.

# **Quality Assurance:**

Realsun photovoltaic modules have passed the following tests.

Thermal cycling test.

Thermal shock test.

Thermal/freezing and high humidity cycling test.

Electrical isolation test.

Hail impact test.

Mechanical, wind and twist loading test.

Salt mist test.

Light and water-exposure test.

Field exposure test.



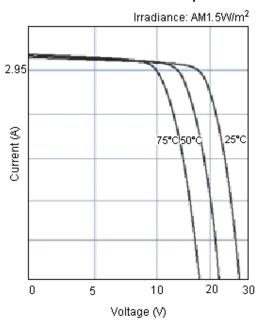
# MC-SP50-GCS



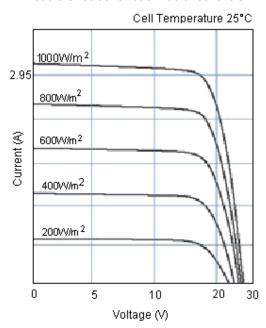
## **Electrical Characteristics:**

## **I-V Curves**

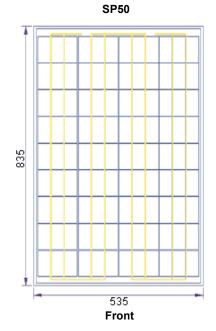
#### Current-voltage characteristics of photovoltaic Module SP50 at various cell temperatures



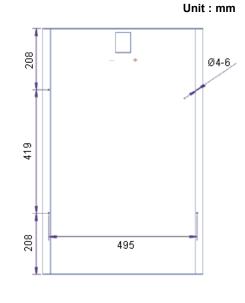
#### Current-voltage characteristics of photovoltaic Module SP50 at various irradiance levels



# **Physical Specifications**







**Back View** 

Dimensions : Millimetres

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk



# MC-SP50-GCS



## **Specifications:**

MONO or poly : Poly.

Maximum power : 50Wp.

Maximum power voltage : 17.00V.

Maximum power current : 2.95A.

Open circuit voltage : 21.50V.

Short circuit current : 3.20A.

Size of module : 835 x 535 x 35mm.

Weight : 7.21Kg.

Package : 1pc/box.

Maximum system voltage : 720V dc.

Temperature coefficients of Isc : 0.06%/K.

Temperature coefficients of Voc : -0.36%/K.

Temperature coefficients of Pm : -0.45%/K.

Temperature range : -40°C to +85°C.

Surface maximum load capacity : 60ms (200kg/sq.m).

Allowable hail load : Steel ball fall down from 1m height.

Length of cables : Terminals.

Output tolerance : ±3%.

Frame (material, corners, etc.) : Aluminium (epx 0.8w).

Warranty : Free from defects in materials and workmanship for 5 years/10 years on 90% of the minimum

power output/25 years on 80% of the minimum power output.

#### **Part Number Table**

Description	Part Number
Solar Panel, 50W, 17.5V, 690 x 684 x 35mm	MC-SP50-GCS

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