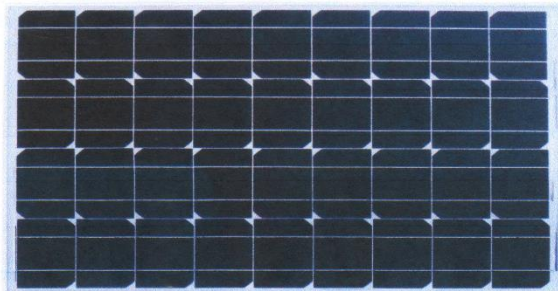




**Solar Panel 100 Watt**  
Monocrystalline Series

## SIM-100



Electrical Characteristics	
Power ( Pmax )	100 Watts
Power Tolerance	± 5%
Open Circuit Voltage ( Voc )	22.54 V
Short Circuit Voltage ( Isc )	5.79 A
Maximum Power Voltage ( Vpm )	18.90 V
Maximum Power Current ( Ipm )	5.33 A
Maximum System Voltage	1,000 V
Mechanical Characteristics	
Solar Cells	36 laser cutted monocrystalline configured geometrically for a 9 x 4 matrix connected in series
Construction	High tempered anti reflective 3.2mm glass High quality EVA encapsulated with Polyester backsheet
Frame	6063T6 Silver Anodized Aluminium Alloy
Dimension	1002 x 666 x 35 mm
Weight	8.5 Kg
Temperature Coefficient	
Isc Temperature Coefficient	(0.065 ± 0.015)% /°C
Voc Temperature Coefficient	-(160 ± 20)mV /°C
Pmax Temperature Coefficient	-(0.5 ± 0.05)% /°C
Temperature Cycling Range	-40°C to +85°C
Damp heat test	85°C and 85% Humidity
Front and Rear static load test	2400Pa or 245Kg/m²
Front load test	5400Pa or 550Kg/m²
Hail impact test	25mm hail at 25m/s

\*Standard test conditions, irradiance 1000W/m² at AM1.5 and temperature of 25°C

\*Manufactured under ISO9001:2008, ISO14001 and OHSAS 18000 certified factory

\*Under Japanese supervision with Japanese standard quality

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