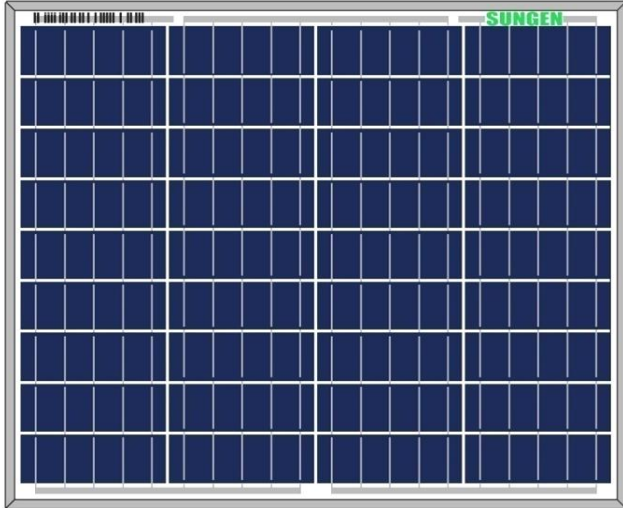


SUNGEN

SG-P-50 Series



Quality Product

All Manufactured modules are tested 100% by EL (Electroluminescence) during the Production Process & Free from micro cracks.

Our high-performance modules are highly efficient, reliable and provide optimal output.

The company manufactures solar modules in compliance with global standard including MNRE, IEC 61215, 61730-1, 61730-2, 61701, UL 1703, UL 61730, ISO 9001:2008 & ISO 14001:2004 & 18001:2007.

High Efficiency .

High Module efficiency is obtaining top performance even in diffused light conditions.

We are leaders in providing our customers with maximum sunlight conversion.

Application Possibilities

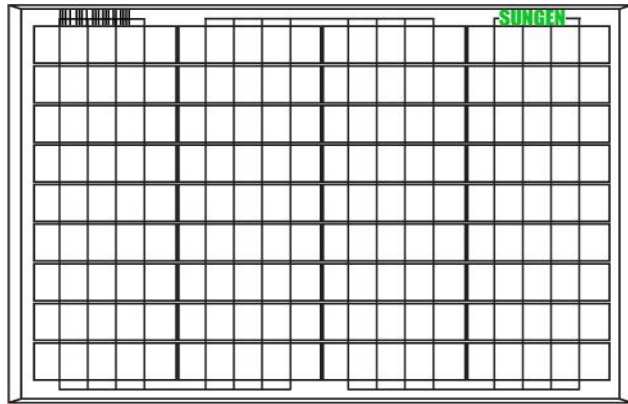
Residential and Commercial rooftops, Car ports, Solar Farming, Balconies, Awnings, Street lights, Fences, and Canopies.

Our Team

We have a team of qualified experts and engineers making sure that modules produce maximum power. We pride ourselves in caring for each individual customer needs with detailed attention. Our end goal is to give a highly efficient product with exceptional customer service.

Guarantee

Our product is durable and has 25 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.



US OFFICE:

Sungen Power LLC
98 Walnut Street,
Nutley, NJ 07110
Office Tel: 201-568-1424



Electric Performance Parameter

Model	SG-P-50
Nominal Maximum Power (Pmax/W)	50
Optimum Operating Voltage (Vmp/V)	17.64
Optimum Operating Current (Imp/A)	2.83
Open Circuit Voltage (Voc/V)	21.6
Short Circuit Current (Isc/A)	3.04

- * Measurement Power Tolerance on Power 0 / +%
- * Under Standard Test Conditions (STC) of irradiance of 1000W/m²
- * Spectrum AM 1.5 and cell temperature of 25 °C
- * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m², 43± 2° C
- * Maximum System Voltage: 1000v IEC/UL

Mechanical Parameter

Module Dimensions	670 X 540 X 33 mm / 26.38 X 21.25 X 1.3 inch
Weight	4.7 kgs / 10.36 lbs
Cell Size (Monocrystalline)	156x52mm/6.14x2.05 in
No Of Cell	36 (4 X 9)
Junction Box	IP65
Glass (Tempered & Low Iron)	3.2mm (0.125in)
Encapsulate	EVA
Back Cover	Composite Sheet
Frame	Anodized Aluminum Alloy
Solar Cable	400mm (15.75 inch) length with 2.5mm ²
Connectors	Mc4 compatible & IP67

Temperature Coefficient

Coefficient of Current	+0.035% /K
Coefficient of Voltage	-0.28% /K
Coefficient of Power	-0.38% /K

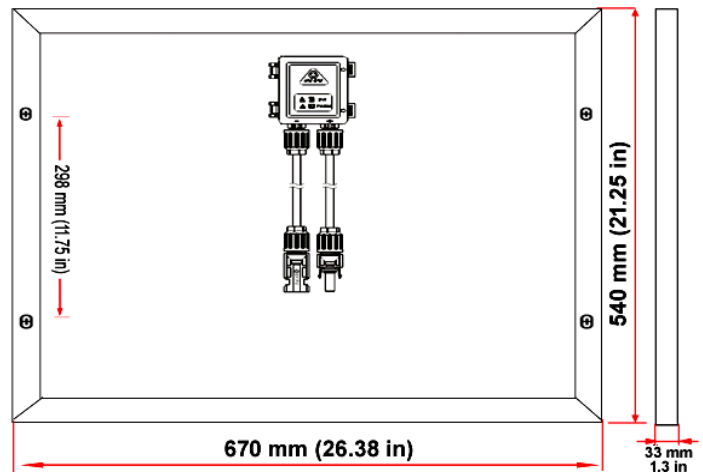
Tested Operating Conditions

Temperature Cycling Range	-40°C to 85°C
Humidity Freeze, Damp Heat	85% RH

Product Warranty

Product Warranty	12 Years
Performance Warranty	First 10 Years up to 90%, next 15 years up to 80%

Module Drawing



IV Curve

