

Amorphous Silicon Solar Modules

SUNGEN SG-NH-GS Series 80W/85W/90W/95W/100W

Product Features

- High performance and energy yield photovoltaic modules made of amorphous silicon.
- Integrated bypass diode in the junction box reduces the power loss effect in a string caused by events such as shading.
- EVA film with high quality TCO glass.
- Module is glass to glass laminated.
- Water-protected connector system, easy for installation.

Quality and Safety

- Product warranty : Free from defects in material and workmanship for 2 years.
- Power warranty : Maintain more than 80% minimum rated power for 20 years.
- According to IEC 61646.
- According to IEC 61730.
- According to UL 1703.
- Certificates pending.



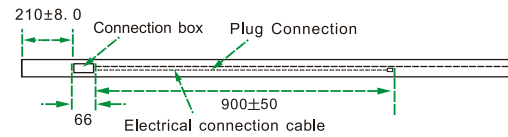
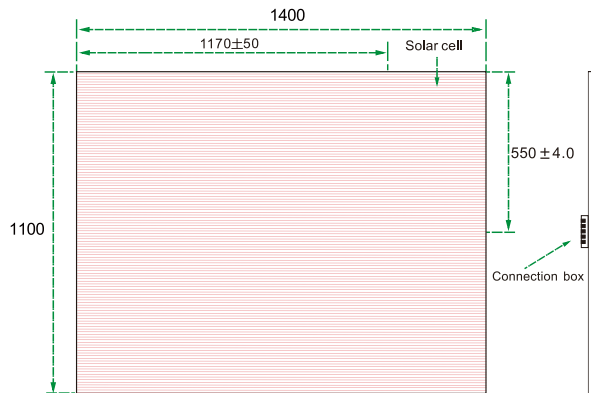
Applications

- On-grid PV Systems.
- Off-grid PV Systems.
- Residential Roof Top Systems.
- Commercial Roof Top Systems.
- Ground Installations.

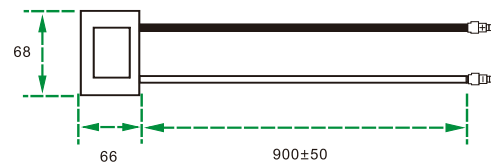


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Connection cable



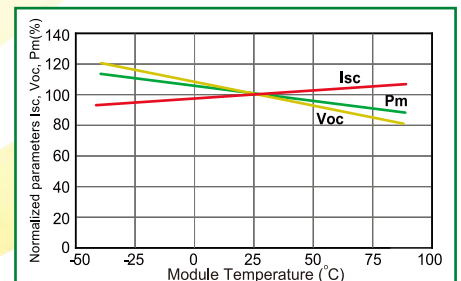
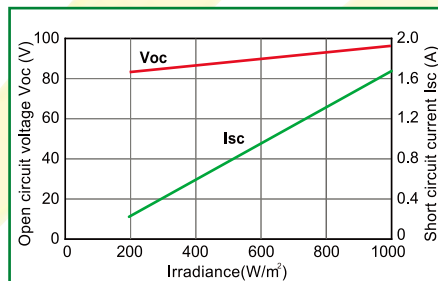
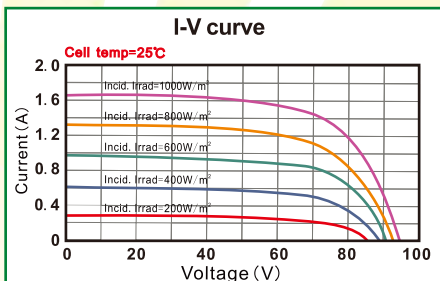
Specifications

Model	SG-NH80-GS	SG-NH85-GS	SG-NH90-GS	SG-NH95-GS	SG-NH100-GS
Maximum Power (Pm)	80W	85W	90W	95W	100W
Operating Voltage (Vmp)	68.0V	68.9V	69.7V	70.7V	71.5V
Operating Current (Imp)	1.18A	1.24A	1.29A	1.35A	1.40A
Open Circuit Voltage (Voc)	93.5V	94.3V	95.0V	95.8V	96.5V
Short Circuit Current (Isc)	1.49A	1.57A	1.64A	1.71A	1.77A
Temperature Coefficient of Pm	-0.19%/K				
Temperature Coefficient of Voc	-0.31%/K				
Temperature Coefficient of Isc	0.07%/K				
Maximum System Voltage	1000VDC (IEC)/ 600 VDC (UL)				
Fixture	None				
Dimensions	1100mm x 1400mm x 7mm (43.3 inches x 55.1 inches x 0.3 inches)				
Weight	26.5kg (58.4lbs)				
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)				
Maximum Mechanical load	2,400 N/m ² (50psf)				

Standard Test Conditions: Irradiance 1000W/m² Spectrum AM1.5 at 25°C, Voc or Isc can be customized.

The output power and all electrical ratings will have tolerance of ±5% and ±10% respectively.

Characteristic Curves (SG-NH95-GS)



Please note the graphs above will have a ±3% tolerance.

SUNGEN International Ltd. December 2009.

SUNGEN reserves the rights to modify these specifications and warranties without notice.