

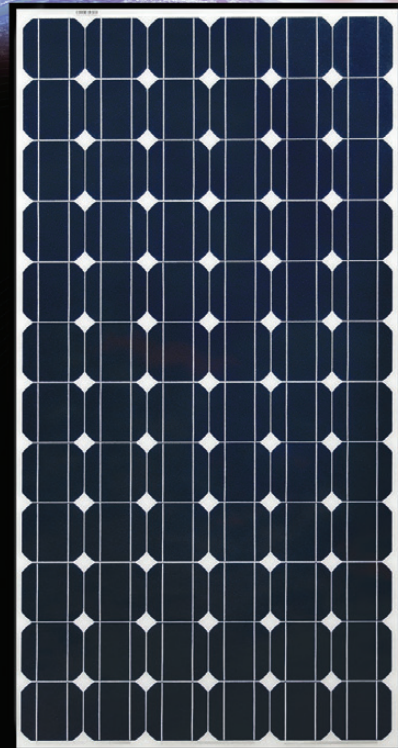
# SG-190M5

## SOLAR MODULE

### Industry leading warranties:

- Performance warranty of 90% power output after 12 years and 85% power output after 25 years
- Power tolerance warranty of +5%, -0%
- Parts and workmanship warranty of 10 years

Please refer to our website for full details on our warranty terms and conditions



## Sungrid is an Australian solar energy company.

Sungrid is an Australian solar energy company that distributes high quality solar modules to customers around Australia, New Zealand and the UK. Only the best quality components are used in the finished Sungrid branded product which means we are able to provide peace of mind with our industry-leading warranties.

Through our extensive international experience and knowledge of the renewable energy industry, Sungrid is constantly working with manufacturers and materials suppliers to bring to market solar modules that deliver a great value proposition for our customers. The third party manufacturing facilities that Sungrid utilises maintain

internationally-accredited quality assurance processes. This provides us, and our customers, with a high level of confidence in the quality of our products and the third party facilities in which they are made.

Our products are supported by our warranties. The length of the module warranty is a direct reflection of the confidence a producer has in its own product. Sungrid provides technical support to its manufacturers and assesses their component supplies, manufacturing processes and quality control programmes to ensure the highest quality product and that's why the warranties that Sungrid provide are amongst the best in the marketplace.



Certified to: IEC61215,  
IEC61730-1, IEC61730-2

# SG -190M5 Photovoltaic module

## Technical specifications:

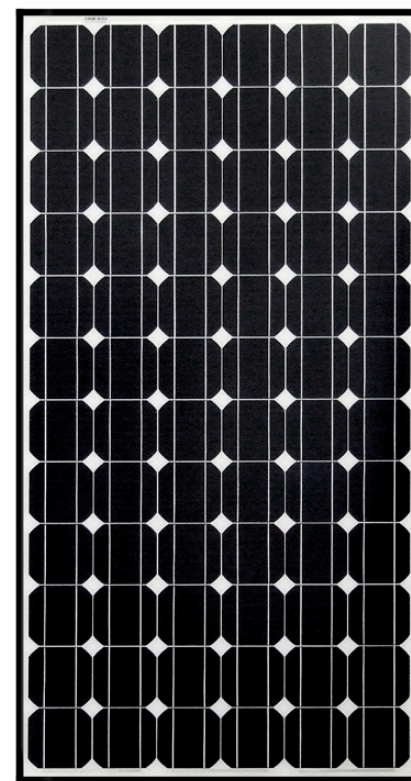
Electrical characteristics	
	<sup>1</sup> STC
Maximum power (W)	190
Open circuit voltage (V)	44.9
Short circuit current (A)	5.81
Maximum power voltage (V)	36.0
Maximum power current (A)	5.28
Module efficiency (%)	14.9

<sup>1</sup>STC: 1000W/m<sup>2</sup>, AM 1.5, 25 °C

<sup>2</sup> NOCT (°C)	45
Nominal voltage (VDC)	24
Power tolerance (%)	+5, -0
Temperature coefficient of Isc (%/°C)	0.037
Temperature coefficient of Voc (%/°C)	-0.33
Temperature coefficient of power (%/°C)	-0.46
Series fuse rating (A)	15
Maximum system voltage (Vdc)	1000
Operating temperature (°C)	-40/+85
Number of bypass diodes	3

<sup>2</sup>NOCT: 800W/m<sup>2</sup>, air temperature 20 °C, wind speed 1 m/s.

Mechanical and physical characteristics	
Cells	72 pcs (6 x 12) 125 x 125mm / mono
Weight (kg)	16.0
Dimensions (L x W x D mm)	1580 x 808 x 50
Frame colour	Black
Maximum load (wind/snow)	2400Pa/5400Pa (to IEC61215 Ed.2)
Cable size (area, length mm)	4 mm <sup>2</sup> , 900mm
Connector type	Genuine MC4
Product code	SG-190M5CN1



SG-190M5

### Sungrid warranty information

Please refer to Sungrid's Warranty Terms document for full details.

Power tolerance warranty of + 5%, - 0%

Performance warranty of 90% power output after 12 years and 85% power output after 25 years

Parts and workmanship product warranty of 10 years



Certified to: IEC61215,  
IEC61730-1, IEC61730-2



[www.sungridsolar.com](http://www.sungridsolar.com)

Please refer to our website for full details on our warranty terms and conditions.

Specifications may be subject to change without notice.



Please consider the environment before printing these pages.

SUNGRID LTD

Address: 4 Bannister Street, Fremantle, WA, 6160

Phone: +61 8 9433 9400

Fax: +61 8 9433 2858

Website: [www.sungridsolar.com](http://www.sungridsolar.com)