

# Sterling SS MONO 255 – Silver

## ELECTRICAL CHARACTERISTICS

## SS MONO 255

*Performed at STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, spectrum at air-mass AM 1.5*

Nominal power @ STC (P <sub>MAX</sub> )	255 W
Tolerance (P <sub>MAX</sub> )	± 3%
Voltage @ maximum power point (V <sub>MPP</sub> )	30.3 V
Current @ maximum power point (I <sub>MPP</sub> )	8.4 A
Open circuit voltage (V <sub>OC</sub> )	37.8 V
Short circuit current (I <sub>SC</sub> )	8.9 A
Temperature coefficient of P <sub>MPP</sub> (γ <sub>2</sub> )	-0.44%/K
Temperature coefficient of V <sub>OC</sub> (β <sub>2</sub> )	-0.32%/K
Temperature coefficient of I <sub>SC</sub> (α <sub>2</sub> )	0.058%/K

**Electrical Data at Nominal Operating Cell Temperature (NOCT)**

*Irradiance 800 W/m<sup>2</sup>, air temperature 20°C, air-speed 1.5 m/s*

Nominal power @ NOCT (P <sub>MAX</sub> )	175 W
Voltage @ maximum power point (V <sub>MPP</sub> )	26.7 V
Current @ maximum power point (I <sub>MPP</sub> )	6.6 A
Open circuit voltage (V <sub>OC</sub> )	34.0 V
Short circuit current (I <sub>SC</sub> )	7.0 A
Tolerance	± 10%
Nominal operating cell temperature (NOCT)	51.5°C

## MECHANICAL PARAMETERS

Overall dimensions (frame)	1,663 x 997 x 42 mm
Mass	21 +/- 1 kg
Tested static back load (1 h)	2,400 N/m <sup>2</sup>
Tested static front load (1 h)	2,400 N/m <sup>2</sup>

## KEY COMPONENTS

Glass	Trakya Cam, 4mm thick Durasolar P+ Prism
Photovoltaic cells	Monocrystalline 3BB 156mmx156mm
Cell connector	Gebauer & Griller Sn62Pb36Ag2, 2.0x0.17mm
Encapsulant	Bridgestone 'Evasky S88' EVA
Back sheet	Dunmore 'Dunsolar' PPE+ White
Frame	2mm Silver Aluminium anodized
Junction Box	TE Connectivity 8-1740971-1 PV4 Connectors

## GENERAL ELECTRICAL PARAMETERS

Maximum system voltage (V DC)	1,000 V
Maximum module reverse current (I <sub>R</sub> )	18 A

## SUNSOLAR WARRANTY

All our panels come with a comprehensive performance and workmanship warranty.

Linear Power Warranty of 25 years and Product Warranty of 25 years.

Disclaimer: SunSolar Energy Ltd reserve the right to update specification details without prior notice.



Certificate Number: MCS PV0205



www.tuv.com  
ID 0000041003

## Contact

T: +44 (0) 121 552 8848  
E: sales@sunsolarenergy.co.uk  
W: www.sunsolarenergy.co.uk

SunSolar Energy Limited,  
Houghton Street, Oldbury,  
Birmingham, West Midlands  
B69 2BB

# GREAT. BRITISH. ENERGY.

## Powering a Brighter Future

SunSolar Energy Ltd is a leading British manufacturer of photovoltaic (PV) Solar panels.

- UK's only manufacturer of solar modules
- Superior after sales service
- State-of-the-art technology
- Highest quality components
- 25 year guaranteed performance
- 25 year product warranty
- Quality performance tested using 'Triple A+' flash tester
- MCS and TUV Rheinland approved products
- 100% revenue stays in the UK



For more information, contact us on +44 (0) 121 552 8848  
or email [sales@sunsolarenergy.co.uk](mailto:sales@sunsolarenergy.co.uk).

[www.sunsolarenergy.co.uk](http://www.sunsolarenergy.co.uk)