

# Sterling SS MONO 250 – Silver

ELECTRICAL CHARACTERISTICS		SS MONO 250
<i>Performed at STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, spectrum at air-mass AM 1.5</i>		
Nominal power @ STC (P <sub>MAX</sub> )		250 W
Tolerance (P <sub>MAX</sub> )		± 3%
Voltage @ maximum power point (V <sub>MPP</sub> )		30.7 V
Current @ maximum power point (I <sub>MPP</sub> )		8.2 A
Open circuit voltage (V <sub>OC</sub> )		37.85 V
Short circuit current (I <sub>SC</sub> )		8.8 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
<i>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</i>		
Nominal power @ NOCT (P <sub>MAX</sub> )		172 W
Voltage @ maximum power point (V <sub>MPP</sub> )		27.1 V
Current @ maximum power point (I <sub>MPP</sub> )		6.4 A
Open circuit voltage (V <sub>OC</sub> )		34.0 V
Short circuit current (I <sub>SC</sub> )		6.9 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.



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