

# Sterling SS MONO 255 AB – Black

ELECTRICAL CHARACTERISTICS	SS MONO 255 AB
<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> )	255 W
Tolerance (P <sub>MAX</sub> )	± 3%
Voltage @ maximum power point (V <sub>MPP</sub> )	31.6 V
Current @ maximum power point (I <sub>MPP</sub> )	8.26 A
Open circuit voltage (V <sub>OC</sub> )	38.4 V
Short circuit current (I <sub>SC</sub> )	8.7 A
Module efficiency (Percent)	15.5%
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 35 mm
Mass	19 +/- 1 kg
Tested static back load (1 h)	2,400 N/m <sup>2</sup>
Tested static front load (1 h)	5,400 N/m <sup>2</sup>

KEY COMPONENTS	
Glass	3.2mm thick Solar Glass
Photovoltaic cells	Monocrystalline 3BB 156mmx156mm
Cell connector	Gebauer & Grillner Sn62Pb36Ag2, 2.0x0.17mm
Encapsulant	Bridgestone 'Evasky S88' EVA
Back sheet	Dunmore 'Dunsolar' PPE+ Black
Frame	1.5mm Black Aluminium anodized
Junction Box	TE Connectivity PV4 Connectors, MC4 compatible

GENERAL ELECTRICAL PARAMETERS	
Maximum system voltage (V DC)	1,000
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 reserves the right to update specification details without prior notice.



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