

Sterling SS POLY 250 AB – Black.

ELECTRICAL CHARACTERISTICS SS POLY 250

Performed at STC: Irradiance 1000 W/m², module temperature 25°C, spectrum at air-mass AM 1.5

Nominal power @ STC (P _{MAX})	250 W
Tolerance (P _{MAX})	-0 +10 W
Voltage @ maximum power point (V _{MPP})	30.44 V
Current @ maximum power point (I _{MPP})	7.97 A
Open circuit voltage (V _{OC})	37.80 V
Short circuit current (I _{SC})	8.44 A
Temperature coefficient of P _{MPP} (γ ₂)	-0.44%/K
Temperature coefficient of V _{OC} (β ₂)	-0.32%/K
Temperature coefficient of I _{SC} (α ₂)	0.058%/K

Electrical Data at Nominal Operating Cell Temperature (NOCT)

Irradiance 800 W/m², air temperature 20°C, air-speed 1.5 m/s

Nominal power @ NOCT (P _{MAX})	180.3 W
Voltage @ maximum power point (V _{MPP})	27.5 V
Current @ maximum power point (I _{MPP})	6.9 A
Open circuit voltage (V _{OC})	34.0 V
Short circuit current (I _{SC})	6.59 A
Nominal operating cell temperature (NOCT)	45°C ± 2°C

MECHANICAL PARAMETERS

Overall dimensions (frame)	1,663 x 997 x 35 mm
Mass	19 +/- 1 kg
Tested static back load (1 h)	2,400Pa
Tested static front load (1 h)	5,400Pa

KEY COMPONENTS

Glass	Ducatt 3.2 mm thick Solar Glass.
Photovoltaic cells	Polycrystalline 3BB 156 mm x 156 mm
Cell connector	Gebauer & Griller Sn60Pb40, 2.0 x 0.17mm
Encapsulant	Bridgestone 'Evasky S88' EVA
Back sheet	Dunmore 'Dunsolar' PPE+ Black.
Frame	1.5 mm Black 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 _R)	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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