

Electrical Characteristics

SM250-12

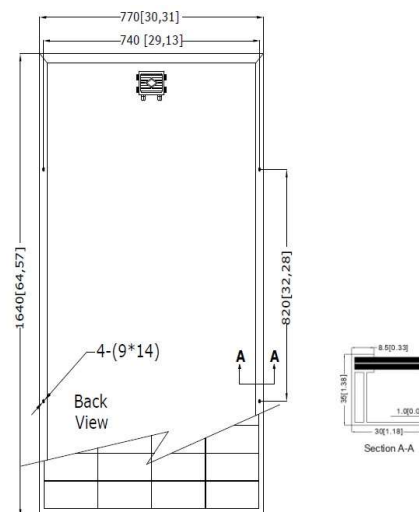
Maximum power at STC (Pmax)	250W
Optimum operating voltage (Vmp)	17.3V
Optimum operating current (Imp)	14.4A
Open-circuit voltage (Voc)	20.6V
Short-circuit current (Isc)	15.4A
Short-circuit current temperature coefficient	(0.1) %/C
Open-circuit voltage temperature coefficient	- (0.38) V/C
Peak power temperature coefficient	- (0.47) %/C
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2C
Operating temperature	-40C to 85C
Maximum system voltage	1000V DC
Power tolerance	±3%

STC: Irradiance 1000W/m², Module temperature 25C, AM=1.5

Features

- Nominal 12V DC output for off grid system.
- High efficiency monocrystalline 9BB PERC cell.
- 9BB cell higher performance with leaf and dropping.
- New half cell technology minimize shadow effect.
- New technology to improve the overall efficiency and performance compared to 5BB cells panel.
- New design to improve the overall performance compared to 36 cells panel.
- Reduce Hot Spot Effect as the panel are splitted into 2 and the current and heat are halved.
- Rugged design to withstands high wind pressure and snow load.
- 10 year module output warranty.

Dimension



Specification

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Cell	Mono-crystalline silicon solar cells
No. of cell and connection	60 (4x15)
Dimension of module	1640mm×770mm×30mm
Weight	14kg

Due to the cell improvement every batch, size specifications are subject to change without notice.