



EN: This Datasheet/Document is presented by the manufacturer.

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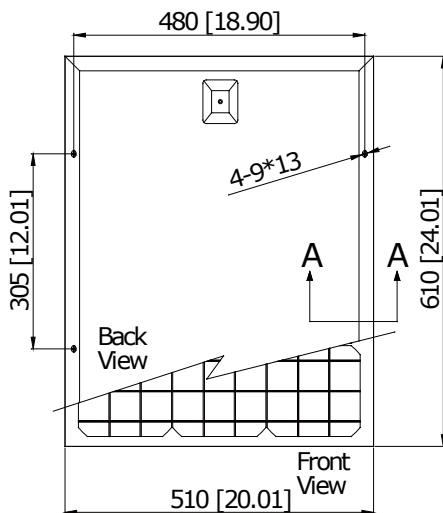
CL-SM50M

High Efficiency, High Quality PV Module

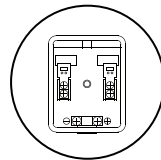
Electrical Characteristics	CL-SM50M
Maximum power (P _{max})	50W
Voltage at P _{max} (V _{mp})	18.6V
Current at P _{max} (I _{mp})	2.69A
Open-circuit voltage (V _{oc})	22.9V
Short-circuit current (I _{sc})	2.85A
Temperature coefficient of V _{oc}	-(0.40 ± 0.05)%/ °C
Temperature coefficient of I _{sc}	(0.065 ± 0.01)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m ² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	600V DC
Power tolerance	+ 3%
Cells	monocrystalline silicon solar cell
No. of cells and connections	36(3X12)
Module Dimension	610mm[24.02in.]x510mm[20.08in.]x30mm[1.18in.]
Weight	3.8kg[8.36lbs]

* STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C
 * Specifications are subject to change without notice at any time.

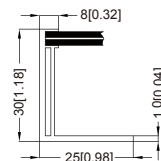
Module Diagram



Dimensions in brackets are in inches.
 Un-bracketed dimensions are in millimeters.
 Unit:mm[in.]



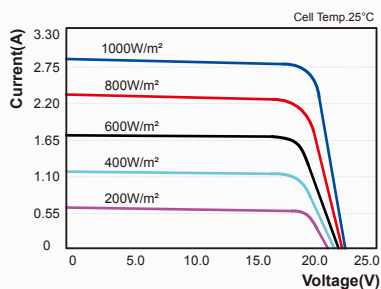
Junction Box
 Top View (Lid open)



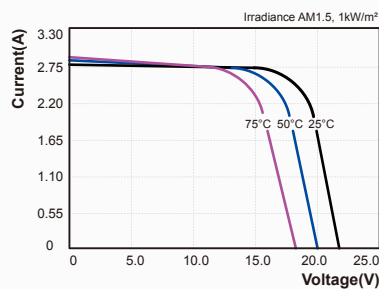
Section A-A

I-V Curves

I-V Curves of PV module



I-V Curves of PV module CL-SM50M at various cell temperatures



RoHS

Key Features:

- High module efficiency and stable power output
- Based on leading process technology
- Outstanding electrical performance under high temperature conditions or low irradiance conditions
- Easy of installation and all-weather applications
- 5 years product warranty(materials and workmanship)
- 20 years module power output warranty
- Peak power of single module is guaranteed in +3% power tolerance
- Strong framed module,passing loaded test of 5400 Pa (IEC61215 2nd)
- The manufacture is certified for ISO 9001:2008

Product's Guarantee

- 15 years module power output no less 90%
- 20 years module power output no less 80%

Applications

- Off grid residential roof-tops
- Off grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other off-grid applications



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