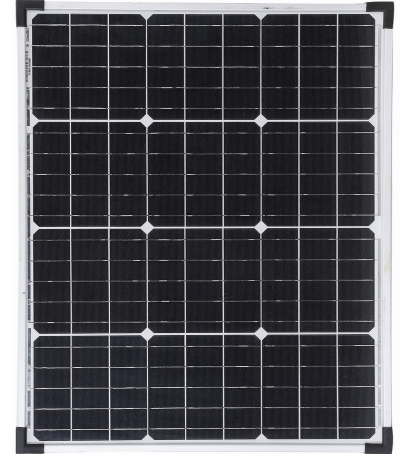


# CL-SM50M

## High Efficiency, High Quality PV Module



Electrical Characteristics	CL-SM50M
Maximum power (Pmax)	50W
Voltage at Pmax (Vmp)	18.6V
Current at Pmax (Imp)	2.69A
Open-circuit voltage (Voc)	22.9V
Short-circuit current (Isc)	2.85A
Temperature coefficient of Voc	$-(0.40 \pm 0.05)\% / ^\circ\text{C}$
Temperature coefficient of Isc	$(0.065 \pm 0.01)\% / ^\circ\text{C}$
Temperature coefficient of power	$-(0.5 \pm 0.05)\% / ^\circ\text{C}$
NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> 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/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C  
 \* Specifications are subject to change without notice at any time.

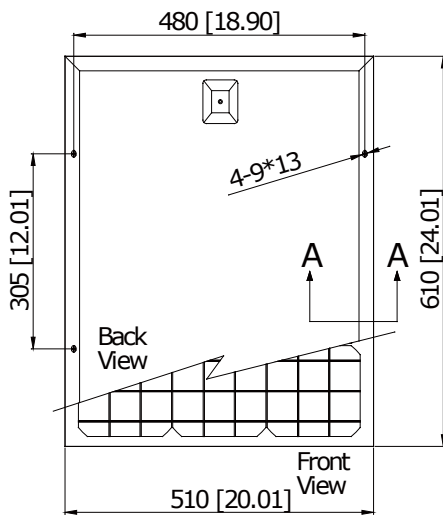


RoHS

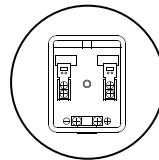
### Key Features:

- 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

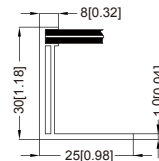
### Module Diagram



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



Junction Box  
 Top View (Lid open)



Section A-A

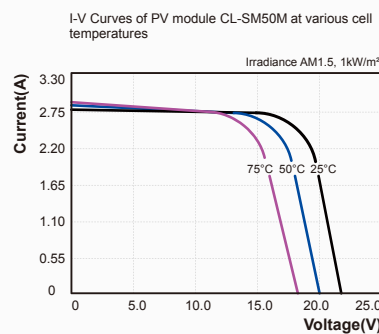
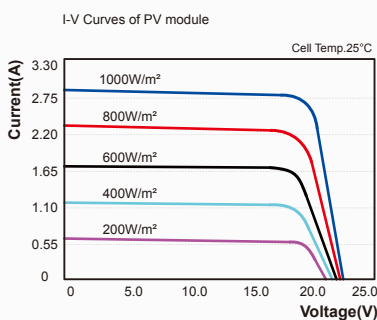
### Product's Guarantee

- 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

### I-V Curves



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[CLD-6524-L-T3-ER](#) [CLD-6524-T3-ER](#) [CLD-6524-T3-ER25](#) [CLD-7012-T2-E](#) [CLD-7012-T2-E25](#) [CLD-8012-T3](#) [CLD-9012-T2-E](#)