celesta ®

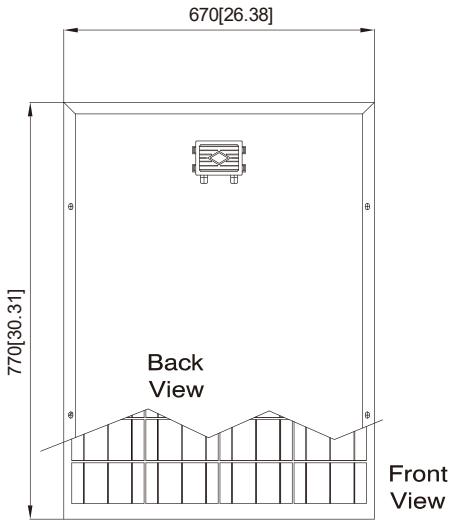
CL100M

High Efficiency, High Quality PV Module

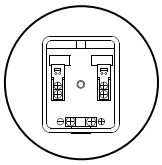
Electrical Characteristics	CL100M
Maximum power (Pmax)	100W
Voltage at Pmax (Vmp)	22.90V
Current at Pmax (Imp)	4.38A
Open-circuit voltage (Voc)	27.35V
Short-circuit current (Isc)	4.65A
Temperature coefficient of Voc	-(0.40 ± 0.05)%/ °C
Temperature coefficient of Isc	(0.065 ±0.01)% /°C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	± 3%
Cells	monocrystalline silicon solar cell
No. of cells and connections	40(4X10)
Module Dimension	670mm[26.37in.]x770mm[30.31in.]x30mm[1.18in.]
Weight	5.5kg[12.13lbs]

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

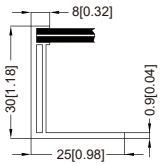
Module Diagram



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



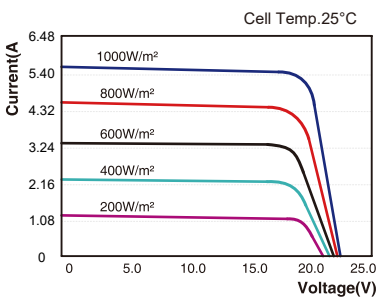
Junction Box
Top View (Lid open)



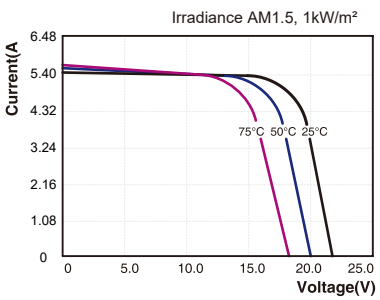
Section A-A

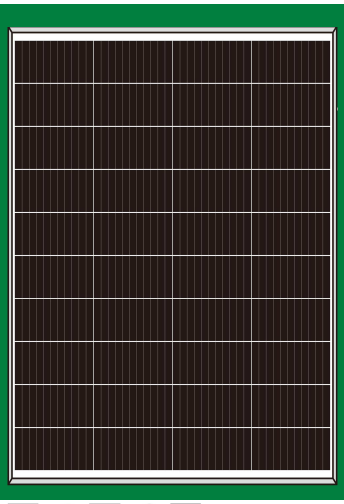
I-V Curves

I-V Curves of PV module CL100M



I-V Curves of PV module CL100M at various cell temperatures





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
- *The manufacture is certified for ISO 9001:2015*

Product's Guarantee

- 5 years products life warranty
- 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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