



HALF CUT MONO CRYSTALLINE MODULE

CE-390/395/400/405/410HM72



Higher Efficiency

The highest efficiency of the series is up to 20.38%.



High Reliability

Superior craftsmanship, engineering excellence, and attention to the finest detail ensure longevity and optimal performance.



Low-Light Performance

Excellent power generation performance under Low-light.



Extremely Environmental Testing

Remain peak performance in extreme environments.



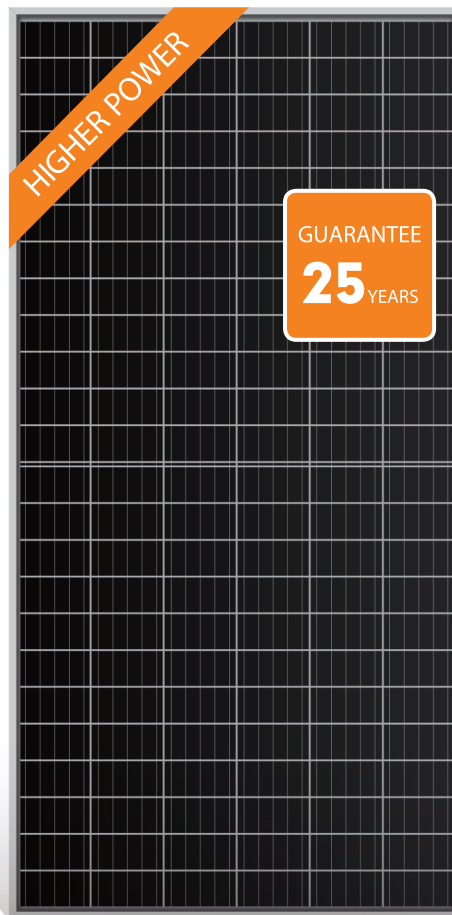
Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test.



PID Free

Certified for Anti-PID under 85 degrees Celsius, 85% RH for 288 hours.



Centro Energy Electric Quality

For more than 10 years, we have been perfecting our PV modules to bring you the highest quality products possible.

- Automated cell and module production lines ensure consistently high quality in every module.
- Each cell and module flash tested to ensure rated level of output.
- Aesthetically pleasing black frame and cells.
- Lead-free solder protects health and the environment.

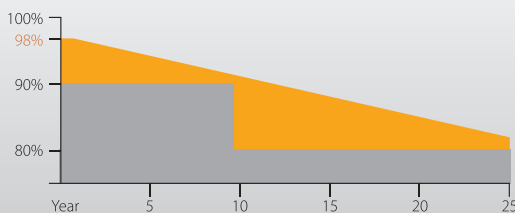
Authorised Photovoltaic Certificates



System Certification

- ISO 9001: 2008
- ISO 14001:2004

25 Years Performance Warranty



Tel: +86 25 8655 0862

Email: info@centro-energy.com

Web: www.centro-energy.com

Add: Industrial Park, Ehu Town, Xishan District, Wuxi, China

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CE-390/395/400/405/410HM72



Electrical Characteristics under STC*

Module Type	CE-390HM72	CE-395HM72	CE-400HM72	CE-405HM72	CE-410HM72
Max. power (Pmax) [W]	390	395	400	405	410
Max. power voltage (Vmp) [V]	41.2	41.4	41.6	41.8	42.0
Max. power current (Imp) [A]	9.47	9.55	9.62	9.68	9.76
Open circuit voltage (Voc) [V]	48.7	48.9	49.1	49.3	49.5
Short circuit current (Isc) [A]	9.96	10.03	10.10	10.17	10.25
Max. series fuse rating [A]	20	20	20	20	20
Power tolerance [W]	0/+5	0/+5	0/+5	0/+5	0/+5
Max. system voltage [V]	1000 / 1500	1000 / 1500	1000 / 1500	1000 / 1500	1000 / 1500
Solar panel efficiency [%]	19.38	19.63	19.88	20.13	20.38

Mechanical Characteristics

Dimension	2008mmx1002mmx40mm
Weight	23.5kg
Front Glass	3.2mm, Low Iron Tempered Glass
Solar Cell	144 pcs
Frame	Anodized Aluminum Alloy
Junction Box	IP 67 / IP 68, 3 diodes
Cable	4mm ² , Length 300mm
Connector	MC4 Compatible

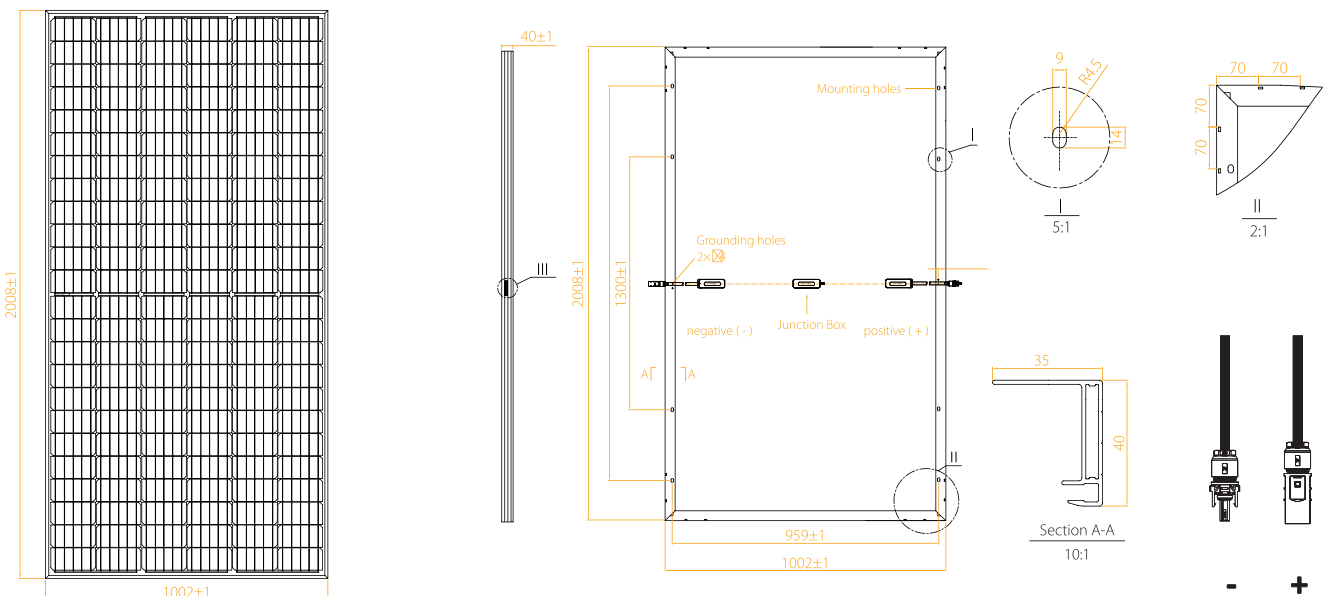
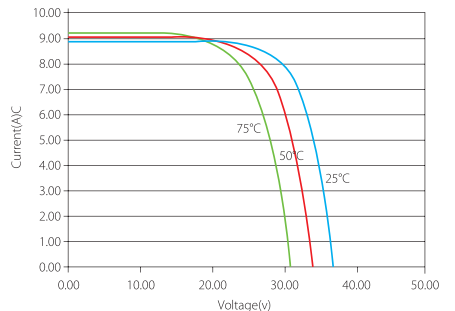
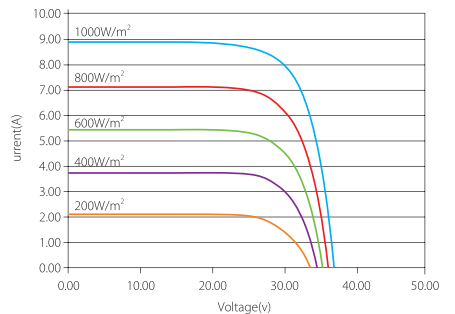
Temperature characteristics

Temperature (NOCT) [°C]	45±2
Temp. coefficient of Pmax [%/°C]	-0.367
Temp. coefficient of Voc [V/°C]	-0.320
Temp. coefficient of Isc [mA/°C]	0.107

Warranty

12 years product warranty
12 years warranty on 90% power output
25 years warranty on 80% power output

IV CURVE



*STC (Standard Testing Conditions): Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5
ambient temperature 20 °C, wind speed 1 m/s

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m²,
The specifications in this datasheet are subjected to change without prior notice