

MONO CRYSTALLINE MODULE CE-430/435/440/445/450HM72



Higher Efficiency

The highest efficiency of the series is up to 20.2%.



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.

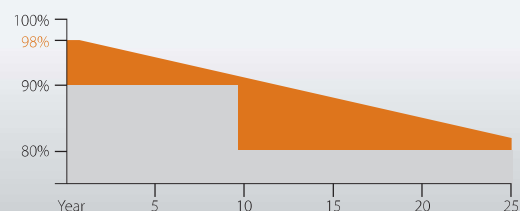
System Certification

- ISO 9001: 2008
- ISO 14001:2004
- OHSAS 18001: 2007

Authorised Photovoltaic Certificates



25 Years Performance Warranty



MONO CRYSTALLINE MODULE CE-430/435/440/445/450HM72

Electrical Data (at STC)

	CE-430HM72	CE-435HM72	CE-440HM72	CE-445HM72	CE-450HM72
Max. power (Pmax) [W]	430	435	440	445	450
Max. power voltage (Vmp) [V]	40.6	40.8	41.0	41.2	41.4
Max. power current (Imp) [A]	10.60	10.67	10.74	10.80	10.87
Open circuit voltage (Voc) [V]	49.2	49.4	49.6	49.8	50.0
Short circuit current (Isc) [A]	11.19	11.26	11.33	11.41	11.48
Max. over current rating [A]	20	20	20	20	20
Power tolerance [%] *	0/+5	0/+5	0/+5	0/+5	0/+5
Max. system voltage [V]	1500	1500	1500	1500	1500
Solar panel efficiency [%]	19.3	19.6	19.8	20.0	20.2

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m²; cell temp. 25°C

Temperature characteristics

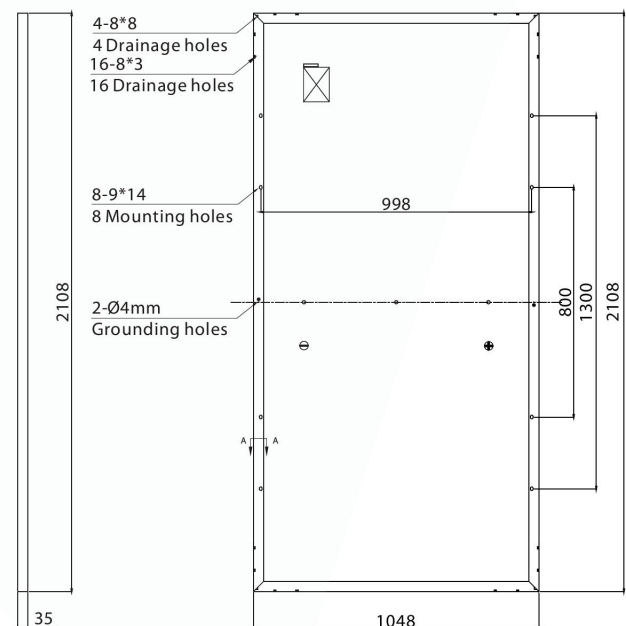
Temperature (NOCT) [°C]	45±2
Temp. coefficient of Pmax [%/°C]	-0.370
Temp. coefficient of Voc [V/°C]	-0.286
Temp. coefficient of Isc [mA/°C]	0.057

Mechanical Data

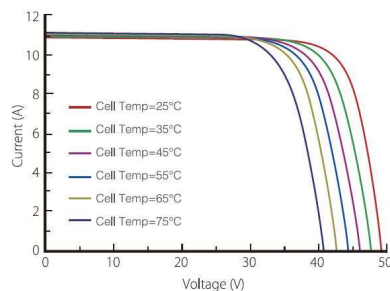
Dimension	2108*1048*35mm
Weight	24.0kg
Front Glass	3.2mm, Coated Tempered Glass
Cell Orientation	144 (6 x 24)
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² , Length 300mm
Connector	MC4 Compatible

Warranty

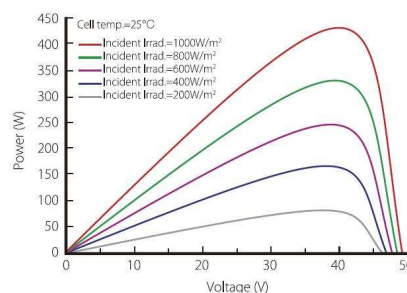
10 years product warranty
10 years warranty on 90% power output
25 years warranty on 80% power output



Current-Voltage Curve (CE-430HM72)



Power-Voltage Curve (CE-430HM72)



Current-Voltage Curve (CE-430HM72)

