

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Centro Energy Co., Ltd.**

**CE-370-410HM72**

**CE-410HM72**

Also available on the web at  
[EnergyPal.com/centro-energy-co-ltd-solar-panels/ce-410hm72](http://EnergyPal.com/centro-energy-co-ltd-solar-panels/ce-410hm72)

# MONO CRYSTALLINE MODULE CE-370/380/390/400/410HM72



## Higher Efficiency

The highest efficiency of the series is up to 19.9%.



## 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.

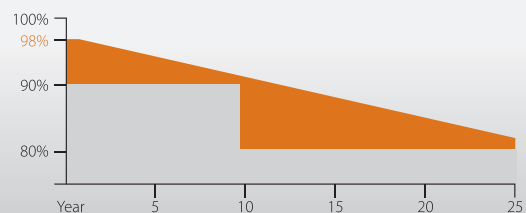
## System Certification

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

## Authorised Photovoltaic Certificates



## 25 Years Performance Warranty



# MONO CRYSTALLINE MODULE CE-370/380/390/400/410HM72

## Electrical Data (at STC)

	CE-370HM72	CE-380HM72	CE-390HM72	CE-400HM72	CE-410HM72
Max. power (Pmax) [W]	370	380	390	400	410
Max. power voltage (Vmp) [V]	39.9	40.5	41.1	41.7	42.3
Max. power current (Imp) [A]	9.28	9.39	9.49	9.60	9.70
Open circuit voltage (Voc) [V]	48.4	48.9	49.3	49.8	50.2
Short circuit current (Isc) [A]	9.51	9.75	10.12	10.36	10.61
Max. over current rating [A]	15	15	15	15	15
Power tolerance [%] *	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 [%]	18.38	18.89	19.38	19.88	20.38

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m<sup>2</sup>; cell temp. 25°C

## Temperature characteristics

Temperature (NOCT) [°C]	45±2
Temp. coefficient of Pmax [%/°C]	-0.40
Temp. coefficient of Voc [V/°C]	-0.31
Temp. coefficient of Isc [mA/°C]	0.06

## Mechanical Data

Dimension	2008mmx1002mmx40mm
Weight	23.0kg
Front Glass	3.2mm, Low Iron Tempered Glass
Solar Cell	158.75 x 79.375mm
Frame	Anodized Aluminum Alloy
Junction Box	IP67 / IP68, 3 diodes
Cable	4mm <sup>2</sup> , Length 300mm
Connector	MC4 Compatible

## Warranty

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

## IV CURVE

