



# CE-485/490/495/500/505HM

## M10/182mm Cell.132 Half-Cell Layout



### Higher Efficiency

Excellent module efficiency up to: 21.5%.



### High Reliability

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



### High Return on Investment

0.45% annual degradation, 25 year linear warranty, more output. Higher maximum system voltage reduces BOS costs.



### Extremely Environmental Testing

Remain peak performance in extreme environments. Class A fireproofing rating.



### Strength and Durability

Certified for 5400Pa snow and 3600Pa loads test. Passed hail test with 35mm hail stones at 97 km/h.



### 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.

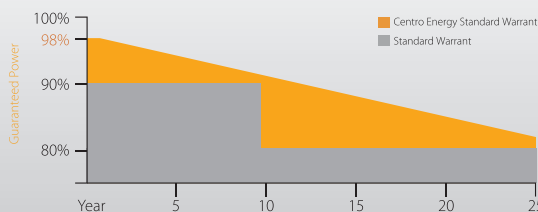
## System Certification

- ISO 9001:2015
- ISO 14001:2015

## Authorised Photovoltaic Certificates



## 25 Years Performance Warranty



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## Electrical Characteristics under STC\*

Module Type	CE-485HM	CE-490HM	CE-495HM	CE-500HM	CE-505HM
Max. power (Pmax) [W]	485	490	495	500	505
Max. power voltage (Vmp) [V]	37.93	38.08	38.23	38.38	38.53
Max. power current (Imp) [A]	12.79	12.87	12.95	13.03	13.11
Open circuit voltage (Voc) [V]	45.10	45.25	45.40	45.55	45.70
Short circuit current (Isc) [A]	13.67	13.74	13.82	13.90	13.97
Max. series fuse rating [A]	25	25	25	25	25
Power tolerance [W]	0/+5	0/+5	0/+5	0/+5	0/+5
Max. system voltage [V]	1500	1500	1500	1500	1500
Solar panel efficiency [%]	20.60	20.90	21.10	21.30	21.50

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]	-0.360
Temp. coefficient of Voc [V/°C]	-0.260
Temp. coefficient of Isc [mA/°C]	0.04

## Mechanical Data

Dimension	2094x1134x35mm
Weight	25.1Kg
Solar cell	Mono-crystalline 132 (6 x 22)
Glass	3.2mm, Anti-Reflection, Low Tempered Glass
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP 68, three diodes
Cable	4mm <sup>2</sup> , (-)900mm and (+)900mm
Connector	MC4 Compatible

## Warranty

12 years product warranty
12 years warranty on 92% power output
25 years warranty on 83% power output

## I-V CURVE

