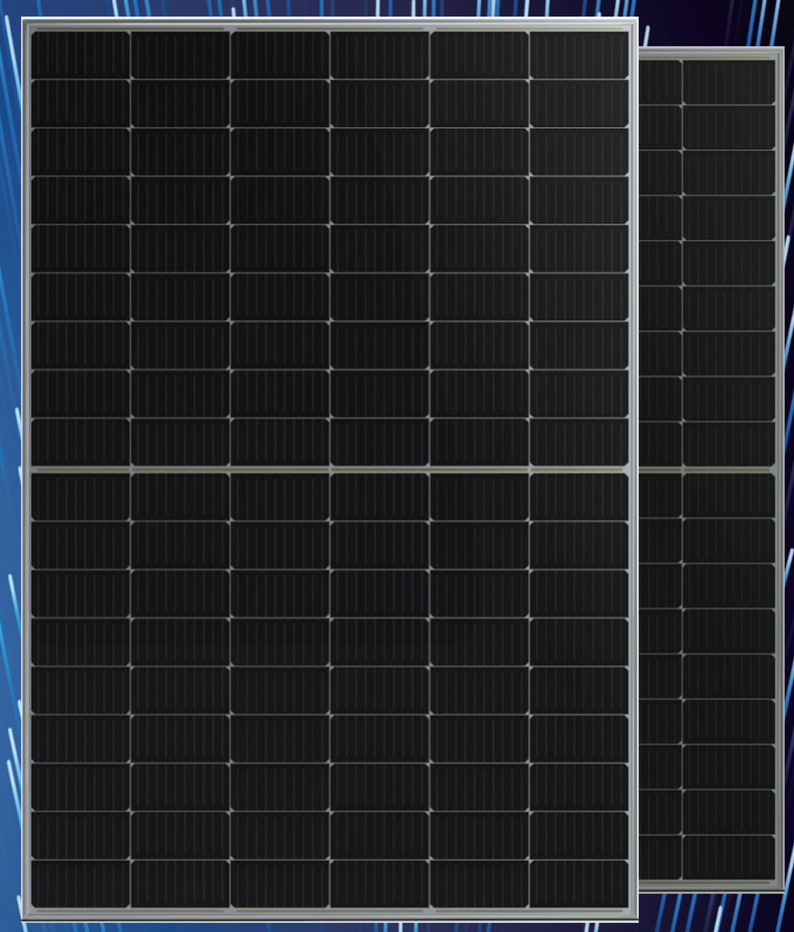
REDSOLAR

Ultra Light Mono Solar Module



12 years Product warranty

25 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964

Sliver frame or black frame

390-410W /Output power

21.00% /Maximum efficiency

0~+5W /Power tolerance

Better Performance

Lower Heat Loss of Internal- resistance.

Better Reliability

Reduce Shading & Risk of Micro Crack.

Ultra Light

24% lighter than conventional moduel.

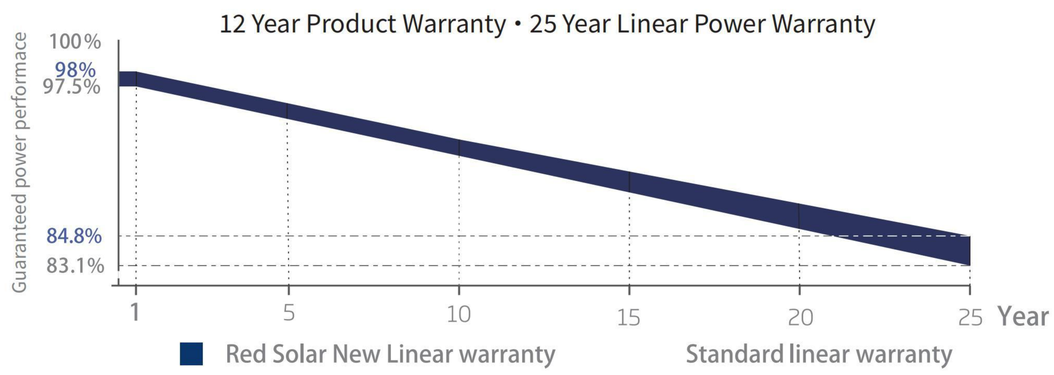
Sleek & Stunning Looking

Powered by Semicore® SignatureBlackTM Technology

Comprehensive product certification

- IEC 61215 IEC61730
- IEC TS 62804 (PID Resistant)
- IEC 62716 (Ammonia Corrosion)
- IEC 61701 (Salt Spray Corrosion)
- IEC TS 62941 (PV quality Management System)
- ISO9001：2015 (Quality Management System)
- ISO14001 (Environmental Management System)
- OHSAS18001 (Occupational Health and Safety Management System)

Excellent Power Guarantee



Hunan Red Solar New Energy Science and Technology Co.,Ltd
www.red-solar.com
sales@red-solar.com

REDSOLAR

Ultra Light Mono Solar Module

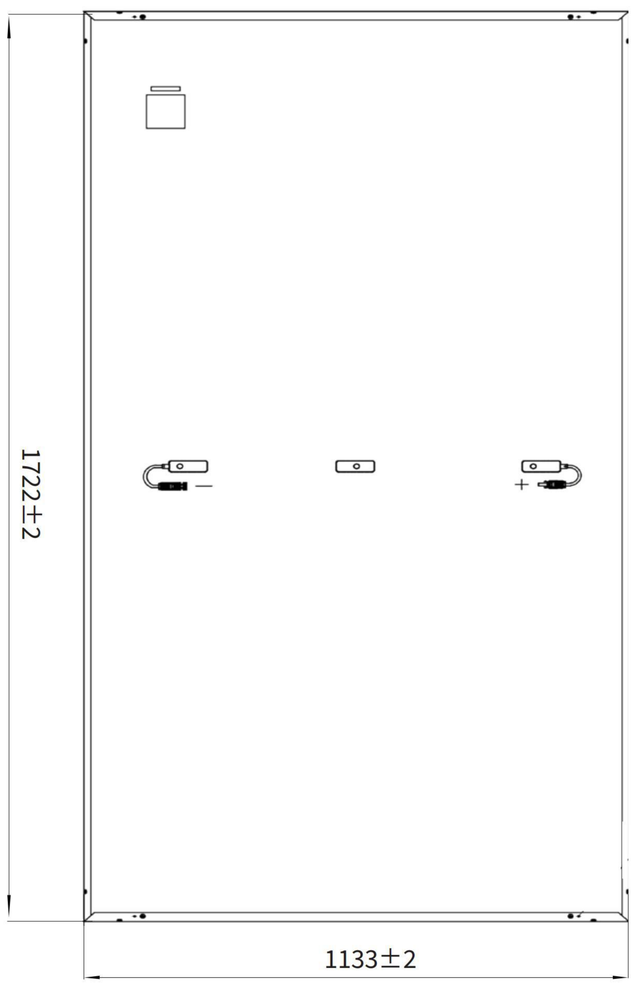
Model of PV Module

CETC-xxxM(L)/108

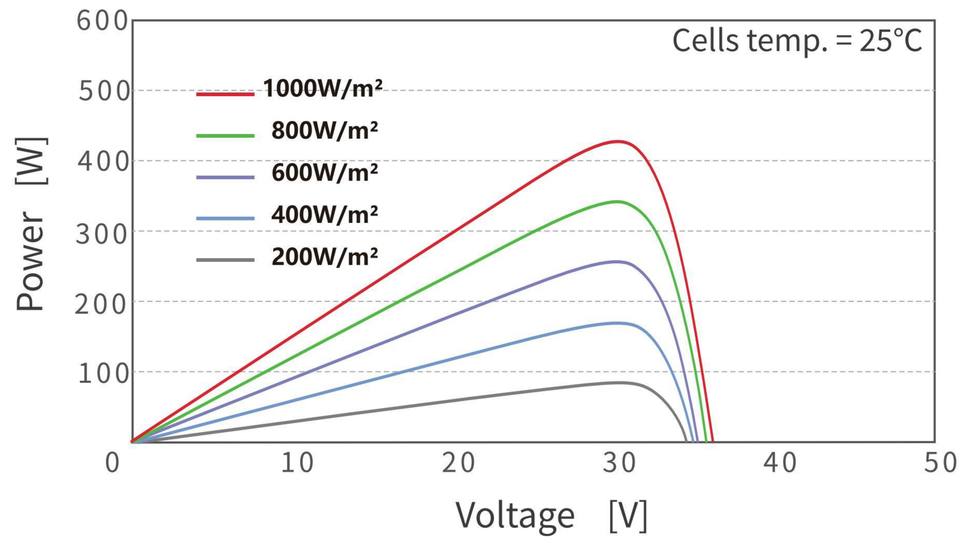
Power Range

390-410W

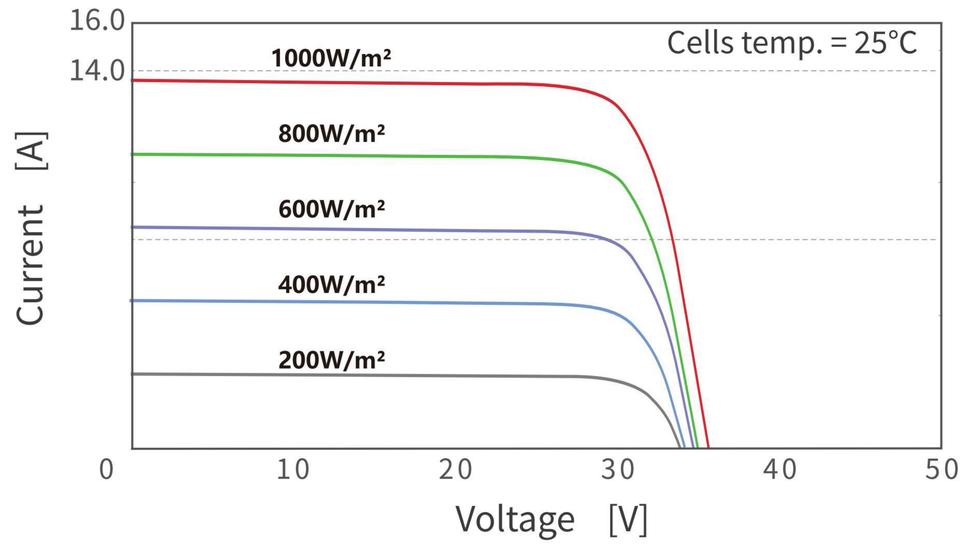
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



Electrical Parameter(STC)

Model	390M	395M	400M	405M	410M
Maximum power（W）	390	395	400	405	410
Working point voltage（V）	30.50	30.60	30.90	31.20	31.50
Working point current（A）	12.87	12.99	13.01	13.06	13.07
Open circuit voltage（V）	36.66	36.75	36.84	36.93	37.02
Short circuit current（A）	13.65	13.71	13.77	13.84	13.91
PV module efficiency	20.0%	20.20%	20.50%	20.80%	21.00%
Standard test conditions	AM1.5, Irradiance 1000w/㎡, Cell Temperature 25°C				

Electrical Parameter(NOCT)

Model	390M	395M	400M	405M	410M
Maximum power（W）	285	288	292	296	300
Working point voltage（V）	27.20	27.40	27.60	27.80	28.10
Working point current（A）	10.48	10.52	10.58	10.64	10.69
Open circuit voltage（V）	34.60	34.70	34.80	35.10	35.50
Short circuit current（A）	11.03	11.08	11.13	11.19	11.24
NMOT	The irradiance is 800W/m, the ambient temperature is 20 degrees, and the wind speed is 1m/s				

The Electrical performance parameters are neither just referred to one PV panel, nor are a part of the contract; They are only used as reference.

Mechanical Parameters

Module size	1722*1133*30mm
Number of solar cells	108Cells (2*6*9)
Weight	16Kg ±5%
Junction Box	IP68, 3 diodes
Cables	4mm², 300mm, (Customizable)
Front plate glass	Ultra white AR coated semi-toughened glass
Static load on the front	3600Pa
Static load on the back	1600Pa

Packaging&Transport

40'HQ container transport	36 Pcs/box × 26 box = 936 Pcs

Temperature Parameter

NMOT	45±2°C
Temperature coefficient of maximum power(Pmax)	-0.35%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.28%/°C
Temperature coefficient of short circuit current(Isc)	+0.05%/°C

Maximum Ratings

Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	25A

All data contained in this specification are subject to change without prior notice. The final interpretation rights belong to Hunan Red Solar New Energy Science and Technology Co.,Ltd (202305V02)