

REDSOLAR

M10-MBB TOPCon Mono Bifacial Module

(132 Half Cells)

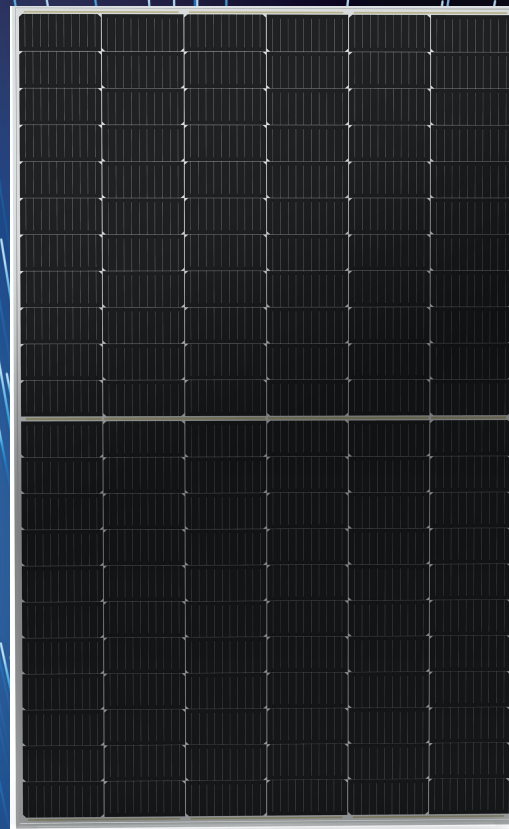


12 years Product warranty



30 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964



505-525W

/Output power

22.1%

/Maximum efficiency

0~+5W

/Power tolerance



PID Resistant

Strict selection of encapsulation materials eliminates PID risk.



Better Performance

30-year linear warranty, 1% decline in the first year, an average annual decline of 0.40% over the first 30 years, increased return on investment. No Boron-oxygen LID (Light Induced Degradation).



High Returns

The n-type module has lower annual attenuation, better photoelectric conversion efficiency and temperature coefficient benefit, bifaciality can reach 80%.



Multi Busbar Technology

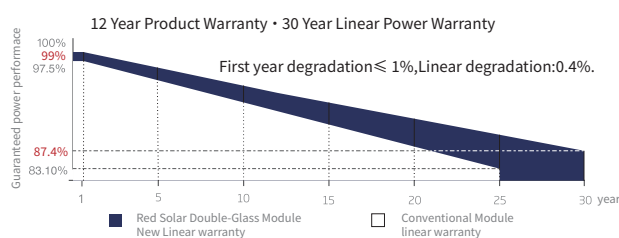
Better light utilization and current collection ability, effectively improve the power output and reliability.

Comprehensive product certification

- IEC 61215 IEC 61730
- IEC TS 62804 (PID Resistant)
- IEC 62716 (Ammonia Corrosion)
- IEC 61701 (Salt Spray Corrosion)
- IEC TS 62941 (PV quality Management System)
- ISO 9001:2015 (Quality Management System)
- ISO 14001 (Environmental Management System)
- OHSAS 18001 (Occupational Health and Safety Management System)



Excellent Power Guarantee



Hunan Red Solar New Energy Science and Technology Co., Ltd

www.semicore-redsolar.com
info@semicore-redsolar.com



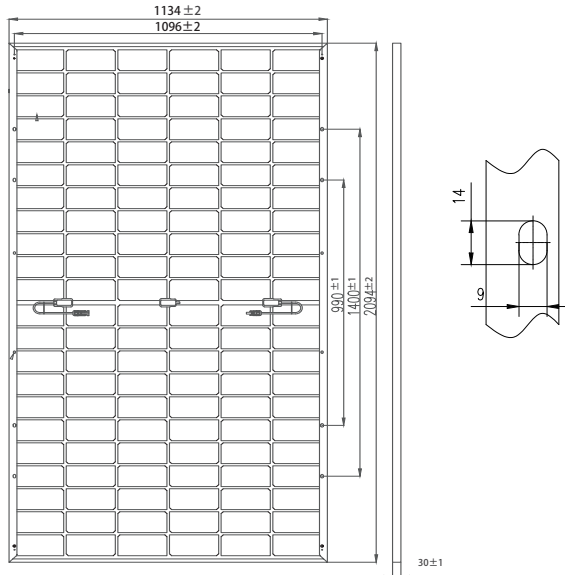
Model of PV Module

CETC-xxxT(GDF)/132

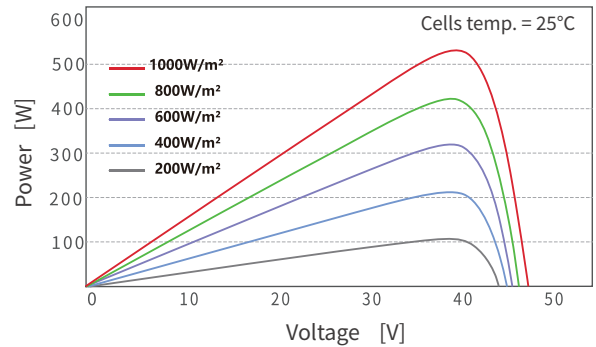
Power Range

505-525W

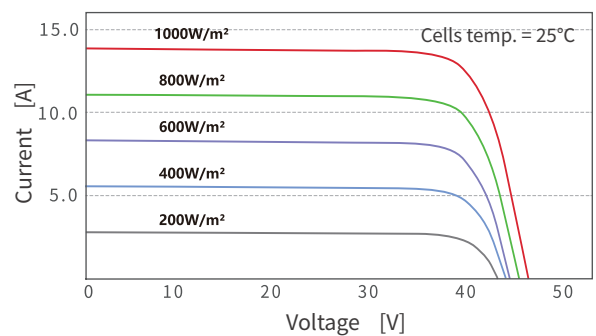
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



Electrical Parameter(STC)

Model	505T	510T	515T	520T	525T
Maximum power (W)	505	510	515	520	525
Working point voltage (V)	38.81	39.02	39.19	39.33	39.50
Working point current (A)	13.01	13.07	13.14	13.22	13.29
Open circuit voltage (V)	46.29	46.43	46.57	46.70	46.93
Short circuit current (A)	14.10	14.17	14.24	14.31	14.38
PV module efficiency	21.27%	21.48%	21.69%	21.90%	22.11%
Standard test conditions	AM1.5, Irradiance 1000w/m ² , Cell Temperature 25°C				

RearSide Power gain

	Maximum Power	530Wp	535Wp	541Wp	537Wp	551Wp
5%	Efficiency STC	22.35%	22.57%	22.79%	23.01%	23.24%
15%	Maximum Power	581Wp	587Wp	592Wp	598Wp	604Wp
	Efficiency STC	24.48%	24.72%	24.96%	25.21%	25.45%
25%	Maximum Power	631Wp	638Wp	644Wp	650Wp	656Wp
	Efficiency STC	26.61%	26.87%	27.13%	27.40%	27.66%

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	2094*1134*30mm
Number of solar cells	132Cells (2*6*11)
Weight	29.5Kg $\pm$ 5%
Junction Box	IP68, 3 diodes
Cables	4mm ² , $\pm$ 300mm/ -200mm (Customizable)
Front plate glass	2.0mm, Ultra white AR coated semi-toughened glass
Rear plate glass	2.0mm, semi-toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport

40'HQ container transport

36 Pcs/box $\times$ 22 box =792 Pcs

Temperature Parameter

NMOT	42 $\pm$ 2°C
Temperature coefficient of maximum power(Pmax)	-0.29%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.25%/°C
Temperature coefficient of short circuit current(Isc)	+0.045%/°C

Maximum Ratings

Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	30A



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