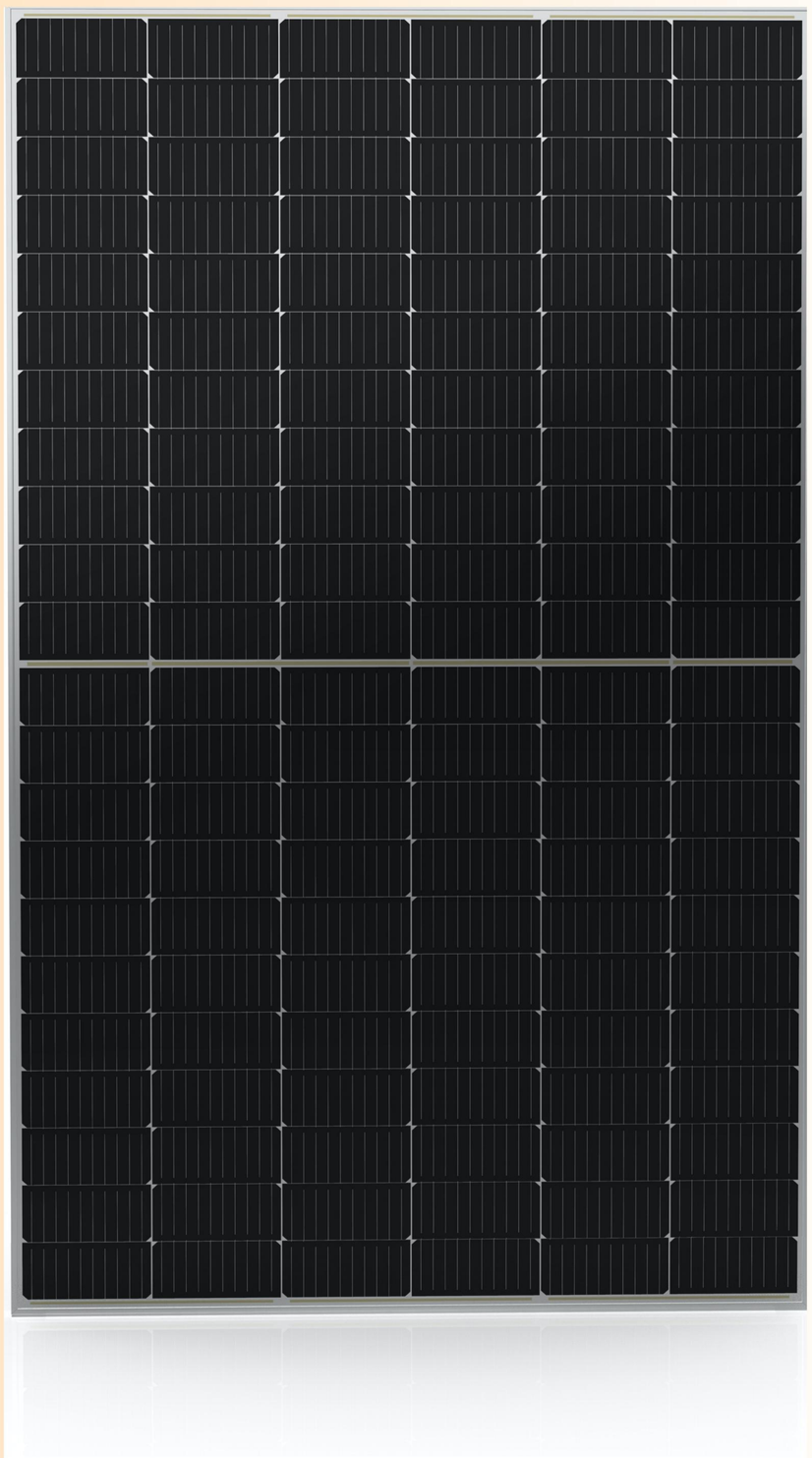
REDSOLAR

M10 MBB Mono Bifacial Module

132 Half Cells

Sliver frame or black frame



12 Years Product warranty

30 Years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964

480-500W

Output power

21.1%

Maximum efficienc

0~+5W

Power tolerance

Better Performance

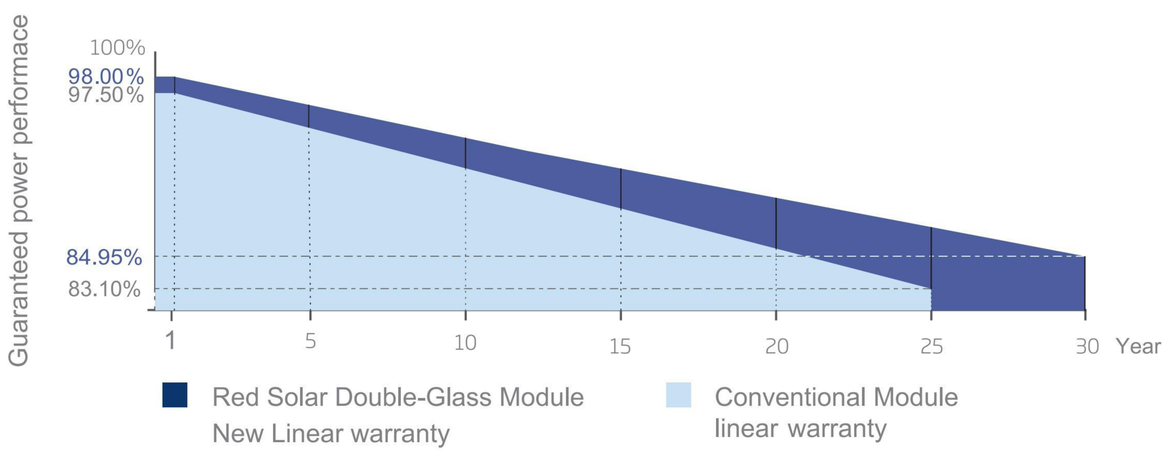
Lower Heat Loss of Internal- resistance

Better Reliability

Reduce Shading & Risk of Micro Crack

Design for Harsh Environment

Resistant to Salt, Ammonia, Dust & Sand



M10 MBB Monocrystalline Bifacial half-cell Module

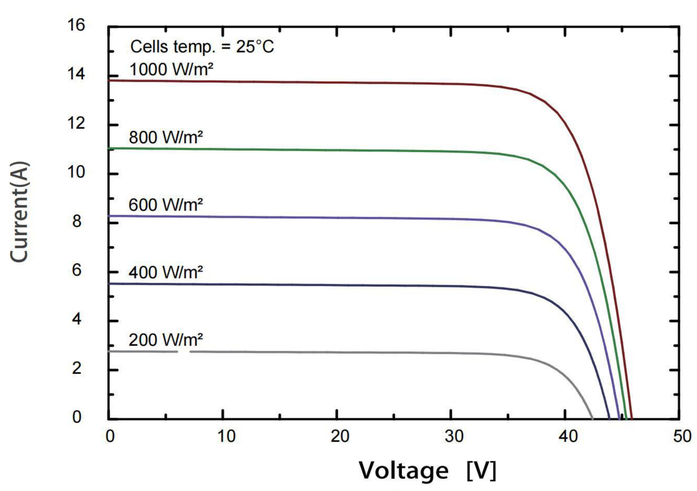
REDSOLAR

Front Electrical Parameter(STC)					
Model	480M	485M	490M	495M	500M
Maximum power	480	485	490	495	500
Working point voltage	37.85	37.98	38.16	38.31	38.43
Working point current	12.68	12.77	12.84	12.92	13.01
Open circuit voltage	44.95	45.10	45.25	45.40	45.55
Short circuit current	13.59	13.67	13.74	13.82	13.90
PV module efficiency	20.27%	20.48%	20.69%	20.90%	21.12%
Standard test conditions	AM1.5, Irradiance 1000w/m², Cell Temperature 25°C				

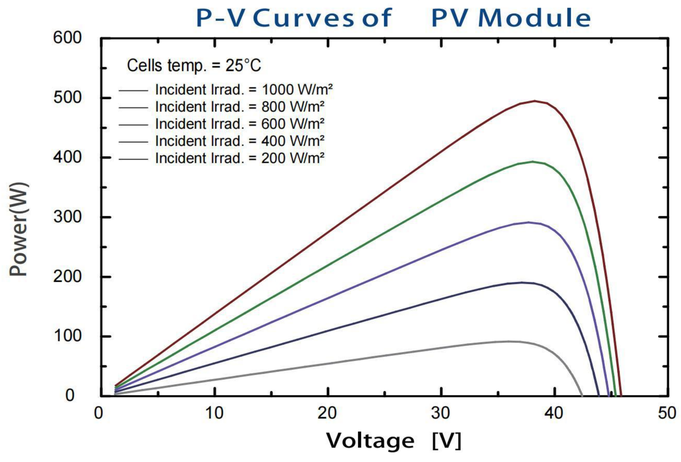
RearSide Power gain						
5%	Maximum Power	504Wp	509Wp	514Wp	520Wp	525Wp
	Efficiency STC	21.26%	21.45%	21.67%	21.89%	22.10%
15%	Maximum Power	552Wp	558Wp	564Wp	569Wp	575Wp
	Efficiency STC	23.25%	23.49%	23.73%	23.97%	24.22%
25%	Maximum Power	656.25Wp	662.5Wp	668.8Wp	675.0Wp	681.3Wp
	Efficiency STC	25.26%	25.53%	25.79%	26.06%	26.32%

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.

I-V Curves of PV Module

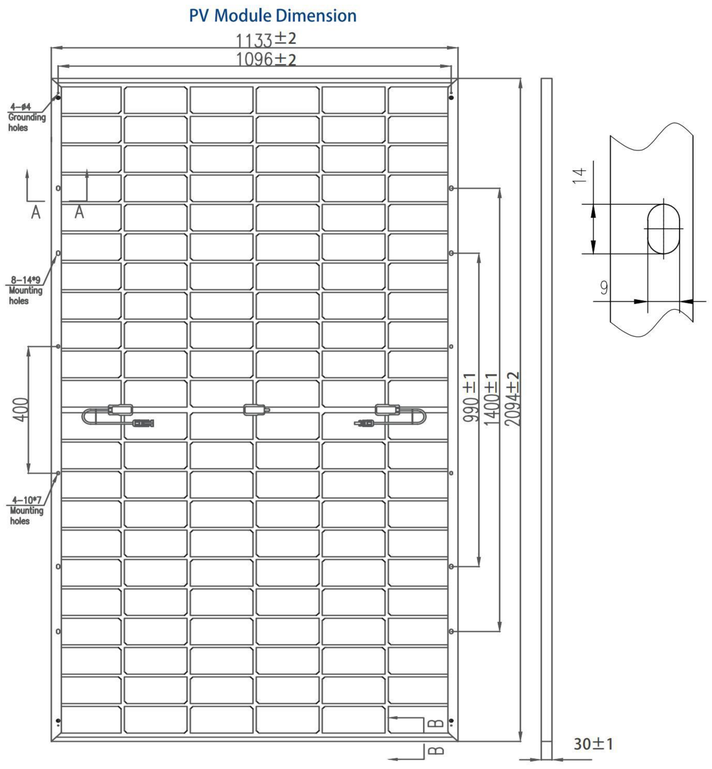


P-V Curves of PV Module



Model of PV Module	Power Range
CETC-xxxM(GDF)/132	480-500W

PV Module Dimension



Mechanical Parameters	
Module size	2094*1133*30mm
Number of solar cells	132Cells(2*6*11)
Weight	29.5Kg ±5%
Junction Box	IP68，3 diodes
Cables	4mm^2，300mm, (Customizable)
Front plate glass	Ultra white AR coated semi-toughened glass
Rear plate glass	semi-toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport	
40'HQ container transport	36 Pcs/box × 22 box =792 Pcs

Temperature Parameter	
NMOT	45±2°C
Pmax	-0.35%/°C
Voc	-0.28%/°C
Isc	+0.048%/°C

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

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