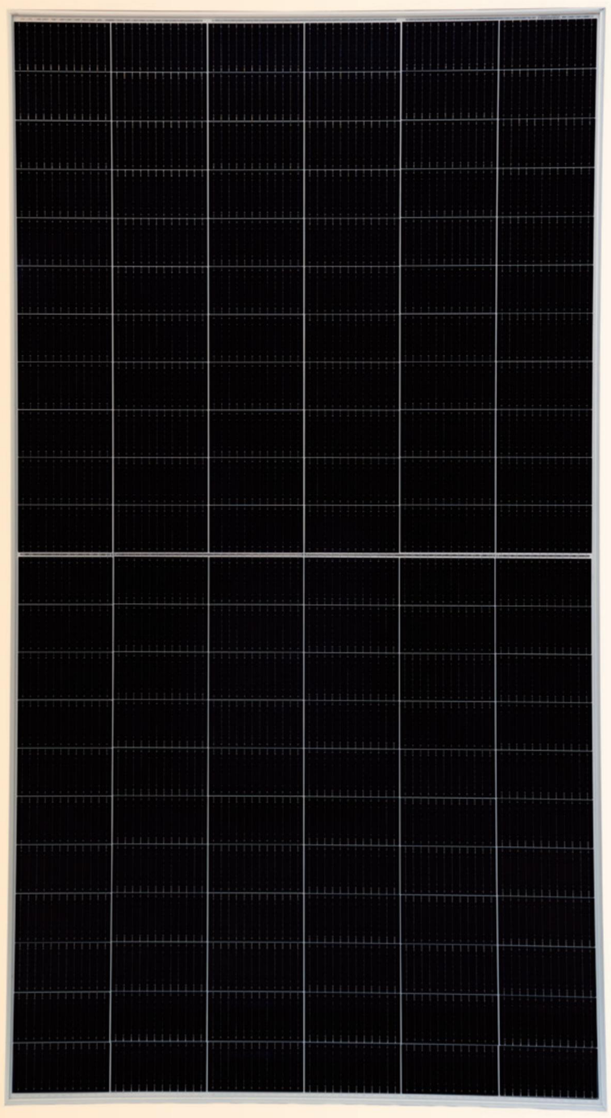
REDSOLAR

G12 MBB Mono Bifacial Module

120 Half Cells

Sliver frame or black frame



12 Years Product warranty

30 Years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964

585-605W

Output power

21.4%

Maximum efficiency

0~+5W

Power tolerance

Better Performance

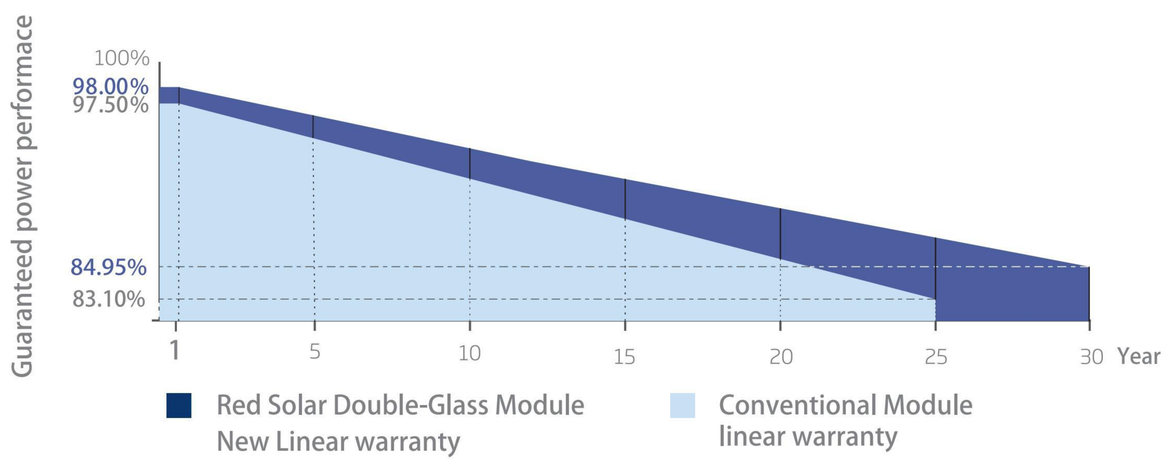
Lower Heat Loss of Internal- resistance

Better Reliability

Reduce Shading & Risk of Micro Crack

Design for Harsh Environment

Resistant to Salt, Ammonia, Dust & Sand



G12 MBB Monocrystalline Bifacial Half-cell Module

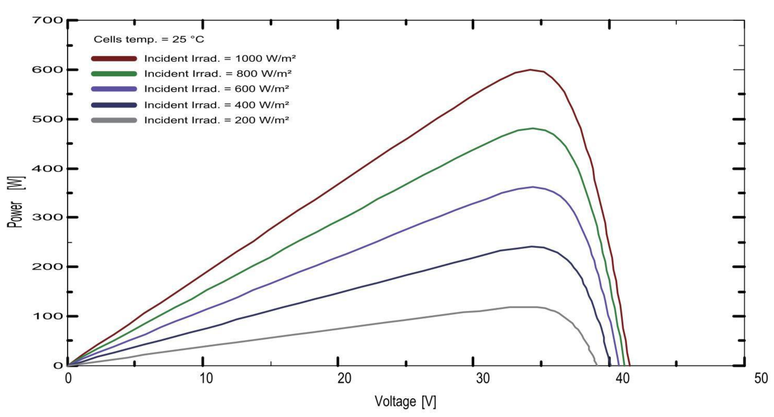
REDSOLAR

Front Electrical Parameter(STC)					
Model	585M	590M	595M	600M	605M
Maximum power	585	590	595	600	605
Working point voltage	33.8	34.0	34.2	34.4	34.6
Working point current	17.31	17.35	17.40	17.44	17.49
Open circuit voltage	41.45	41.73	41.90	42.09	42.19
Short circuit current	18.16	18.21	18.26	18.31	18.36
PV module efficiency	20.7%	20.9%	21.1%	21.2%	21.4%
Standard test conditions	AM1.5, Irradiance 1000w/m², Cell Temperature 25°C				

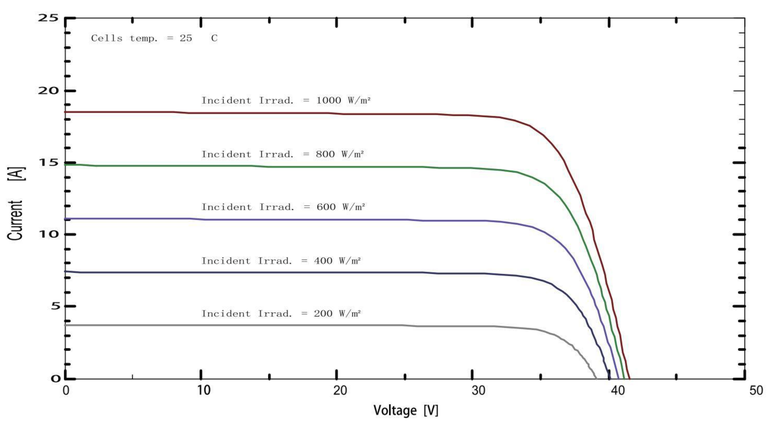
RearSide Power gain						
5%	Maximum Power	614.3Wp	619.5Wp	624.8Wp	630.0Wp	653.3Wp
	Efficiency STC	21.72%	21.92%	22.09%	22.46%	24.34%
15%	Maximum Power	672.8Wp	678.5Wp	684.3Wp	690.0Wp	695.8Wp
	Efficiency STC	23.79%	23.99%	24.20%	24.60%	26.66%
25%	Maximum Power	731.3Wp	737.5Wp	743.8Wp	750.0Wp	756.3Wp
	Efficiency STC	25.86%	26.08%	26.30%	26.52%	26.74%

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.

P-V Curves of PV Module

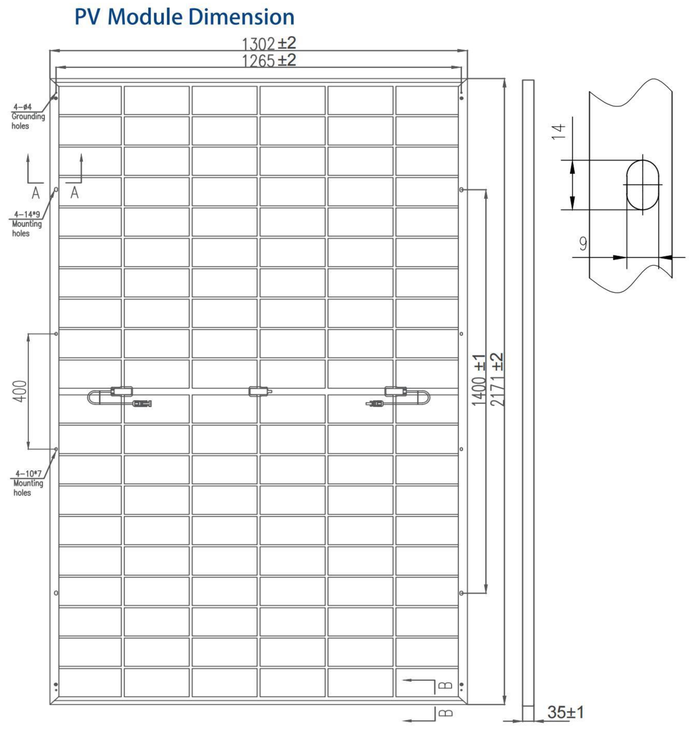


I-V Curves of PV Module



Model of PV Module	Power Range
CETC-xxxM(GDF)/120	585-605W

PV Module Dimension



Mechanical Parameters	
Module size	2171*1302*35mm
Number of solar cells	120(2*6*10)
Weight	34.6Kg ±5%
Junction Box	IP68，3 diodes
Cables	4mm^2,300mm, (Customizable)
Front plate glass	Ultra white AR coated 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	31 Pcs/box × 18 box = 558 Pcs

Temperature Parameter	
NMOT	45±2°C
Pmax	-0.34%/°C
Voc	-0.25%/°C
Isc	+0.04%/°C

Maximum Ratings	
Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	35A

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