REDSOLAR

M10R-MBB TOPCon Mono Bifacial Module

(132Half Cells)

12 years Product warranty

30 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964

615-635W /Output power

22.7% /Maximum efficiency

0~+5W /Power tolerance

Comprehensive product certification

· IEC TS 62941 (PV quality Management System)
· ISO9001: 2015 (Quality Management System)
· ISO14001 (Environmental Management System)
· OHSAS18001 (Occupational Health and Safety Management System)

PID Resistant

Strict selection of encapsulation materials eliminates PID risk.

Low BOS

Rectangular technology, "low voltage" and "high current" features drive a 3%+ reduction in system BOS costs

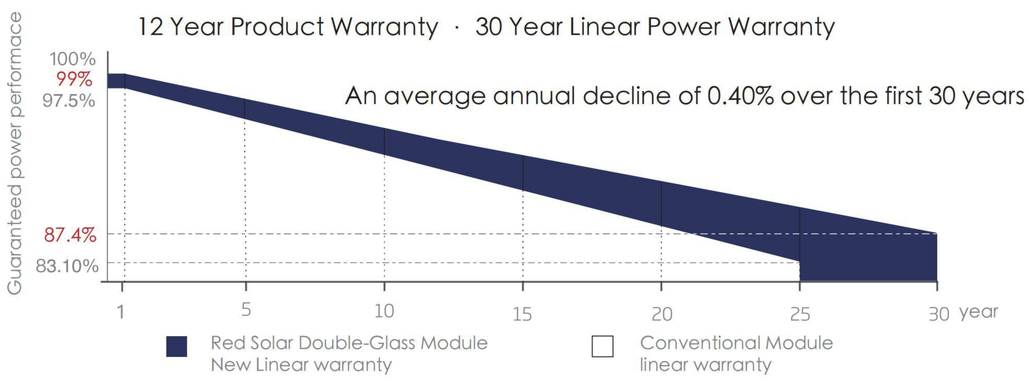
High Returns

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

SMMB Technology

SMBB Superfine main gate technology for better light utilization and current collection energy
Improve product power output and reliability.

Excellent Power Guarantee



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

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M10R-MBB TOPCon Mono Bifacial Module

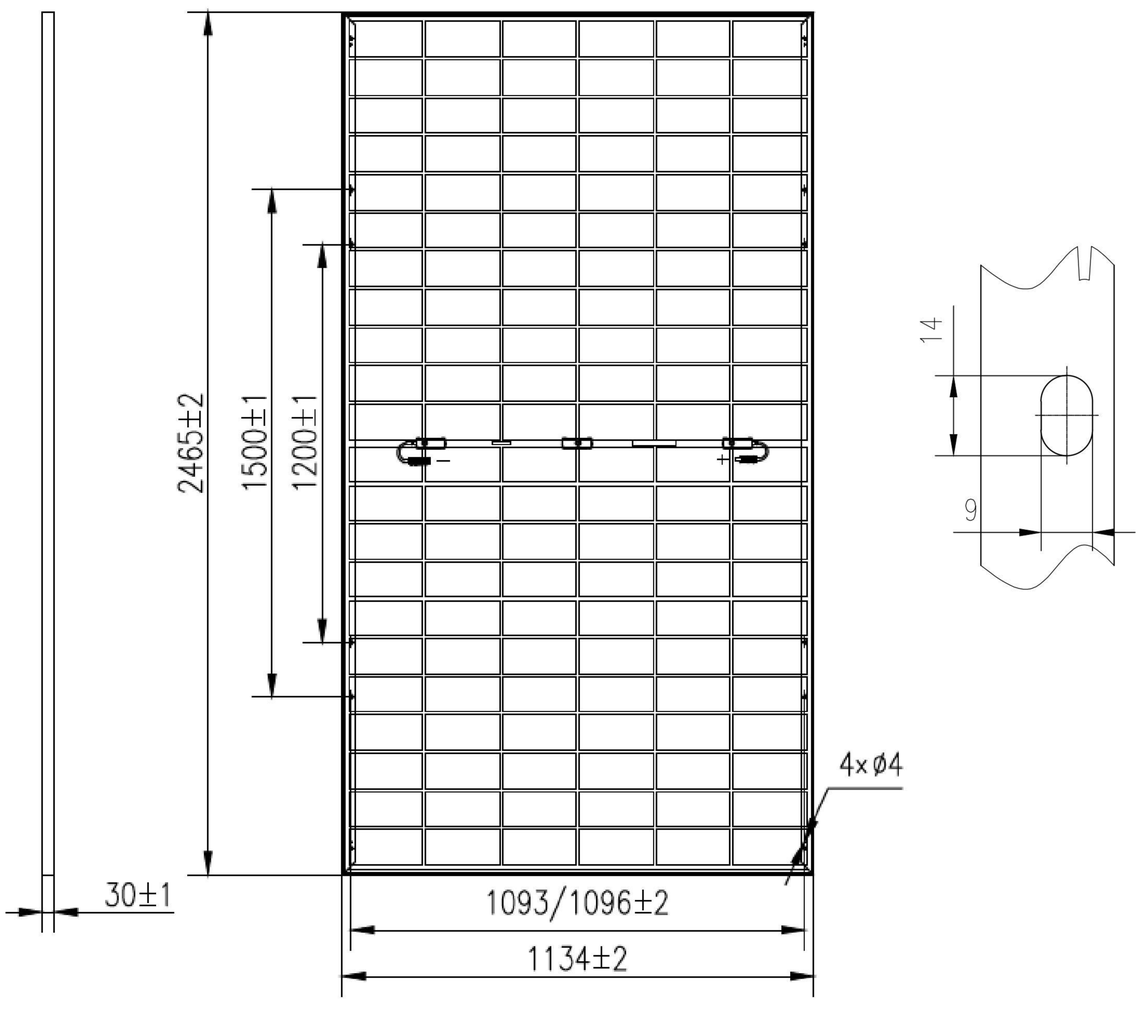
Model of PV Module

CETC-xxxTR(GDF)/132

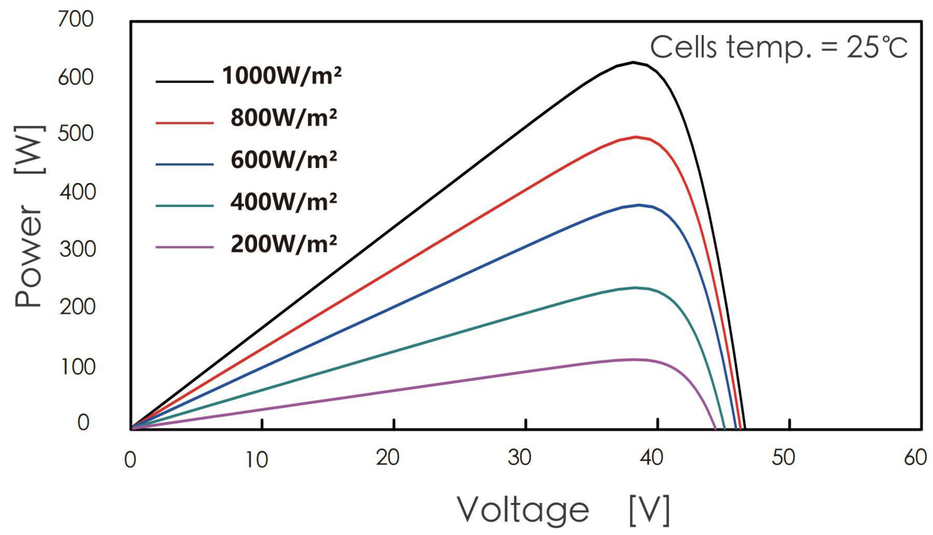
Power Range

615-635W

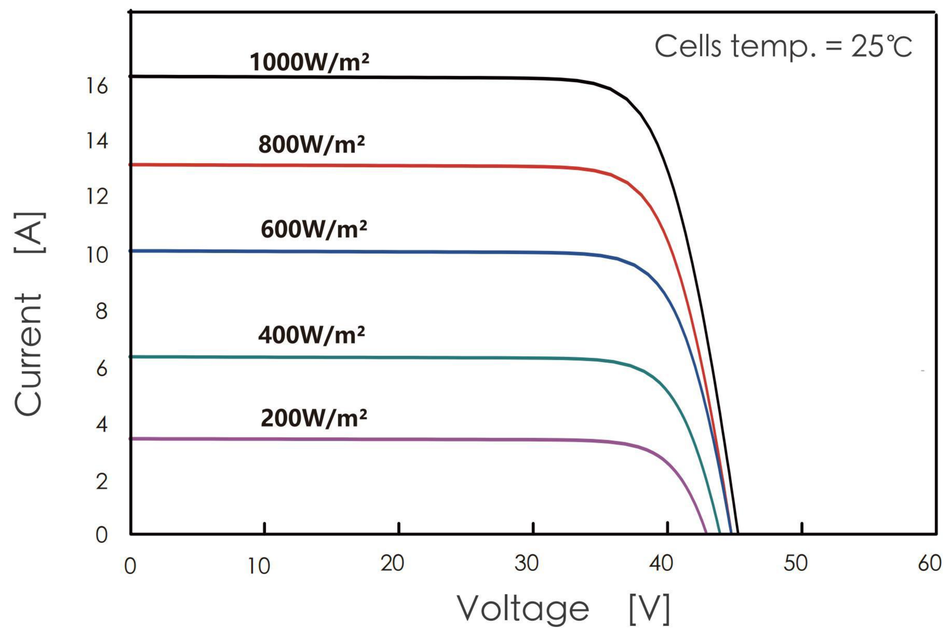
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



Electrical Parameter(STC)

Model	615M	620M	625M	630M	635M
Maximum power (W)	615	620	625	630	635
Working point voltage (V)	38.58	38.70	38.82	38.94	39.05
Working point current (A)	15.94	16.02	16.10	16.18	16.26
Open circuit voltage (V)	46.86	47.01	47.16	47.31	47.46
Short circuit current (A)	16.81	16.89	16.97	17.05	17.13
PV module efficiency	22.00%	22.18%	22.36%	22.54%	22.72%
Standard test conditions	Atmospheric quality Am1.5, Irradiance 1000w/㎡, Cell Temperature 25℃				

RearSide Power gain

5%	Maximum Power	646Wp	651Wp	656Wp	662Wp	667Wp
	Efficiency STC	23.1%	23.3%	23.5%	23.7%	23.9%
15%	Maximum Power	743Wp	749Wp	754Wp	761Wp	767Wp
	Efficiency STC	26.6%	26.8%	27.0%	27.2%	27.4%
25%	Maximum Power	769Wp	775Wp	781Wp	788Wp	793Wp
	Efficiency STC	27.5%	27.7%	27.9%	28.2%	28.4%

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	2465*1134*30mm
Number of solar cells	132Cells（2*6*11）
Weight	33.5Kg ±5%
Junction Box	IP68，3 diodes
Cables	4mm²，+: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 × 16box = 576 Pcs

Temperature Parameter

NMOT	42±2℃
Temperature coefficient of maximum power(Pmax)	-0.30%/℃
Temperature coefficient of open circuit voltage(Voc)	-0.25%/℃
Temperature coefficient of short circuit current(Isc)	+0.045%/℃

Maximum Ratings

Working temperature	-40~+85℃
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（202308V03）