REDSOLAR

M10R- MBB TOPCon Mono Bifacial module

132 Half Cells

Color can be customized black design

12 years Product warranty

30 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964

600-620W /Output power

23.0% /Maximum efficiency

0~+5W /Power tolerance

全面的产品和体系证书

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)

Rectangular cell design

Products with low open circuit voltage, high current design, effectively reduce the system 3%BOS

High quality

Strict selection of packaging materials, resistance to PID hot spot anomaly, mechanical strength meets the conventional component hail test, 5400PA /2400PA snow load, wind load test through IEC61215, IEC61730 and other reliability certification tests

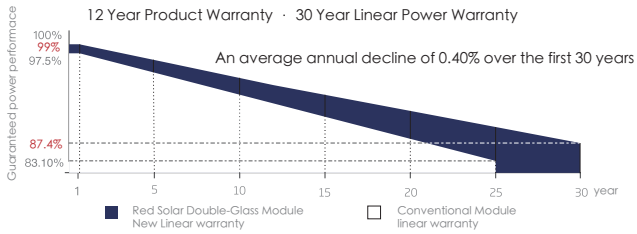
Better Performance

30-year linear warranty, 1% decline in the first year an average annual decline of 0.40% over the first 30 years, increased returnon 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%.

Excellent Power Guarantee



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

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M10R-MBB TOPCon Mono Bifacial Module

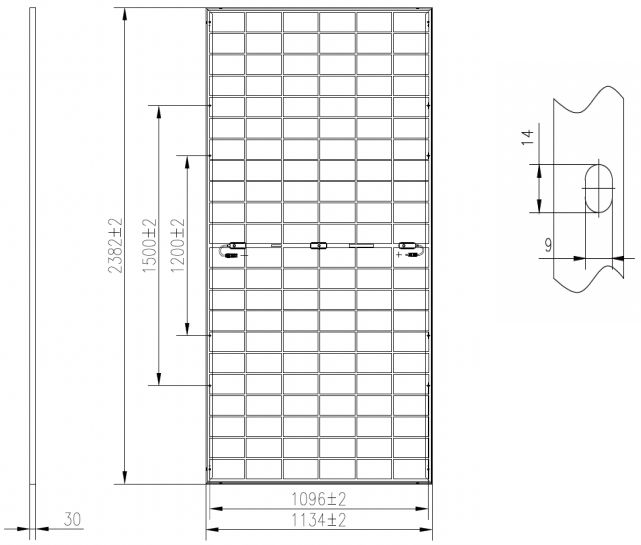
Model of PV Module

CETC-xxxTR(GDF)/132

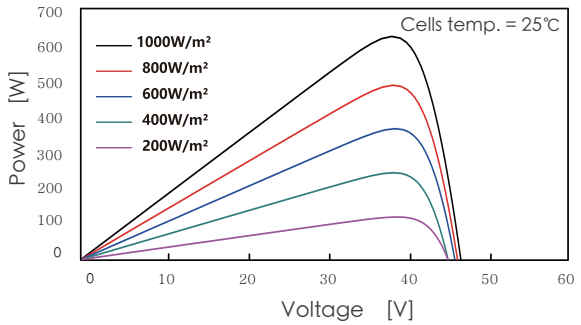
Power Range

600-620W

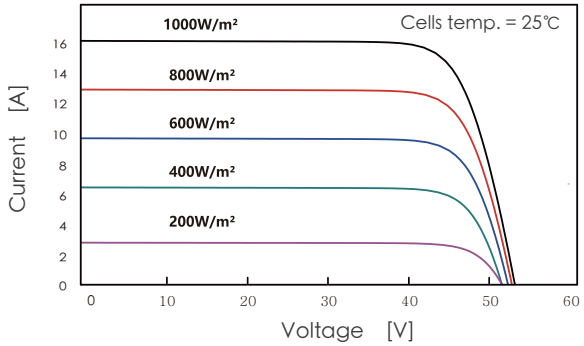
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



Electrical Parameter(STC)

Model	600TR	605TR	610TR	615TR	620TR
Maximum power (W)	600	605	610	615	620
Working point voltage (V)	39.37	39.54	39.71	39.88	40.05
Working point current (A)	15.24	15.3	15.36	15.42	15.48
Open circuit voltage (V)	47.49	47.58	47.67	47.76	47.85
Short circuit current (A)	16.08	16.14	16.2	16.26	16.32
PV module efficiency	22.21%	22.40%	22.58%	22.77%	22.95%
Standard test conditions	Atmospheric quality Am1.5, Irradiance 1000w/㎡, Cell Temperature 25℃				

RearSide Power gain

5%	Maximum Power	630Wp	635.25Wp	640.5Wp	645.75Wp	651Wp
	Efficiency STC	23.32%	23.52%	23.71%	23.91%	24.10%
15%	Maximum Power	690Wp	695.75Wp	701.5Wp	707.25Wp	713Wp
	Efficiency STC	25.54%	25.76%	25.97%	26.18%	26.40%
25%	Maximum Power	750Wp	756.25Wp	762.5Wp	768.75Wp	775Wp
	Efficiency STC	27.77%	28.00%	28.23%	28.46%	28.69%

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	2382*1134*30mm
Number of solar cells	132Cells (2*6*11)
Weight	32.5Kg±5%
Junction Box	IP68, 3 diodes
Cables	4mm^2, 300mm/-:200mm,(Customizable)
Front glass	2.0mm,Ultra white AR coated semi-toughened glass
Front 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 × 20 box = 720Pcs

Note: Packing tray requires additional customization

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 (202404V01)