



G12-MBB N type Mono Bifacial Module

(132Half Cells)



12 years Product warranty



30 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964



690-710W /Output power



PID Resistant

Strict selection of encapsulation materials eliminates PID risk.

22.9% /Maximum efficiency



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).

0~+5W /Power tolerance



High Returns

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

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)

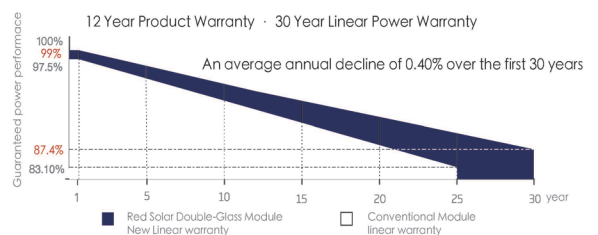


Multi Busbar Technology

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



Excellent Power Guarantee



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

www.red-solar.com
info@red-solar.com



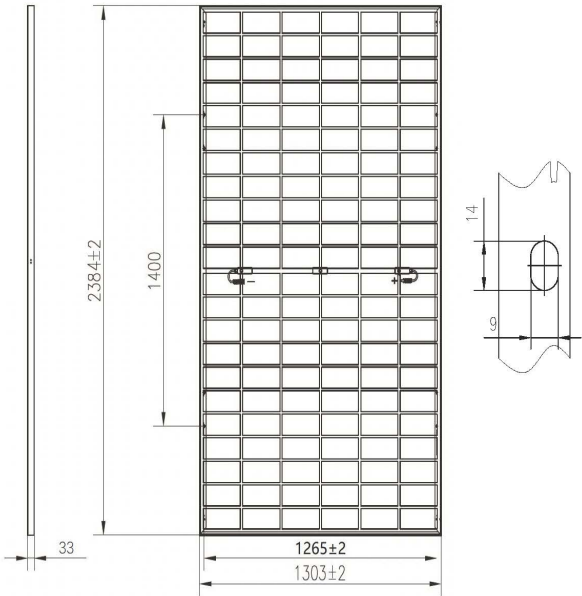


G12-MBB N-type Mono Bifacial Module

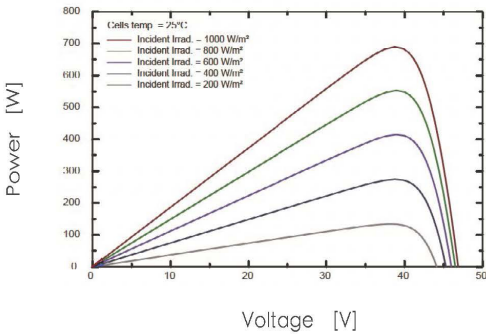
Model of PV Module
CETC-xxxT(GDF)/132

Power Range
690-710W

PV module dimensions (mm)

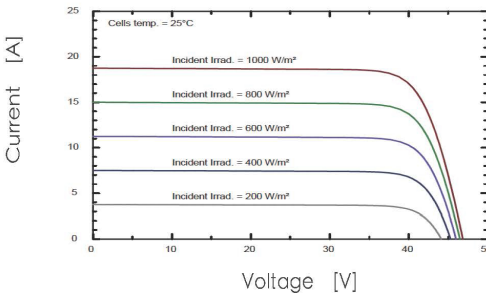


P-V Curves of PV Module



I-V Curves of PV Module

Cells temp. = 25°C



Electrical Parameter(STC)

Model	690T	695T	700T	705T	710T
Maximum power [W]	690	695	700	705	710
Working point voltage [V]	38.94	39.13	39.33	39.52	39.80
Working point current [A]	17.72	17.76	17.80	17.84	17.84
Open circuit voltage [V]	46.88	47.07	47.26	47.45	47.64
Short circuit current [A]	18.78	18.84	18.89	18.95	19.02
PV module efficiency	22.21%	22.37%	22.53%	22.69%	22.86%
Standard test conditions Atmospheric quality Am1.5, Irradiance 1000w/m², Cell Temperature 25°C					

RearSide Power gain

5%	Maximum Power	725Wp	730Wp	735Wp	740Wp	746Wp
	Efficiency STC	23.3%	23.5%	23.7%	23.8%	24%
15%	Maximum Power	794Wp	799Wp	805Wp	811Wp	817Wp
	Efficiency STC	25.5%	25.7%	25.9%	26.1%	26.3%
25%	Maximum Power	863Wp	869Wp	875Wp	881Wp	888Wp
	Efficiency STC	27.8%	28%	28.2%	28.4%	28.6%

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	2384*1303*33mm
Number of solar cells	132Cells (2*6*11)
Weight	38Kg ±5%
Junction Box	IP68, 3 diodes
Cables	4mm², 300mm (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	33 Pcs/box × 18box =594 Pcs
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Temperature Parameter Maximum Ratings

NMOT	42 ± 2°C	Working temperature	-40~+85°C
Temperature coefficient of maximum power(Pmax)	-0.31%/°C	Maximum system voltage	1500VDC
Temperature coefficient of open circuit voltage(Voc)	-0.26%/°C	Maximum fuse rated current	30A
Temperature coefficient of short circuit current(Isc)	+0.046%/°C		



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