

N series

G12R TOPCon Bifacial Black

CETC-490-505TR (GDF) /108



Product warranty



Linear power warranty



PID Resistant Guarantee



Multi Busbar Technology



Better Performance



High Returns



490-505W

Output power

22.7%

Maximum efficiency

0~+5W

Power tolerance

Electrical Parameter(STC)

Model	490T	495T	500T	505T
Maximum power (W)	490	495	500	505
Working point voltage (V)	32.22	32.42	32.62	32.81
Working point current (A)	15.22	15.28	15.34	15.40
Open circuit voltage (V)	38.86	38.93	39.00	39.08
Short circuit current (A)	16.06	16.12	16.18	16.24
PV module efficiency	22.03%	22.26%	22.48%	22.71%
Standard test conditions	Atmospheric quality Am1.5, Irradiance 1000w/m ² , Cell Temperature 25°C			

Rear Side Power Gain

	Maximum Power	515Wp	520Wp	525Wp	530Wp
5%	Efficiency STC	23.1%	23.4%	23.6%	23.8%
	Maximum Power	564Wp	569Wp	575Wp	581Wp
15%	Efficiency STC	25.3%	25.6%	25.9%	26.1%
	Maximum Power	613Wp	619Wp	625Wp	631Wp
25%	Efficiency STC	27.5%	27.8%	28.1%	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	1961*1134*30mm
Number of solar cells	108Pcs(2*6*12)
Weight	27.3Kg +5%
Junction Box	IP68, 3 diodes
Cables	4mm ² , +:300mm/-:200(Customizable)
Front plate glass	2.0mm, coated ultra-white semi-tempered glass
Rear plate glass	2.0mm, Semi-tempered glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport

40'HQ container transport	36 Pcs/box x 24 box = 864 Pcs
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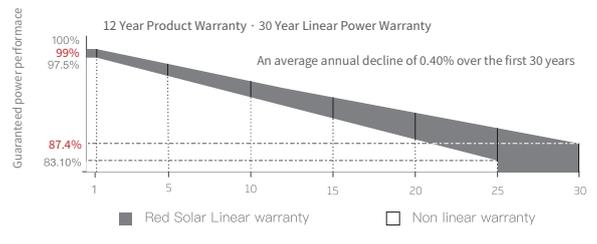
Temperature Parameter

NMOT	42±2°C
Temperature coefficient of maximum power(Pmax)	-0.29%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.25%/°C
Temperature coefficient of short circuit current(Isc)	+0.045%/°C

Limit Parameter

Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	25A

Excellent Power Guarantee



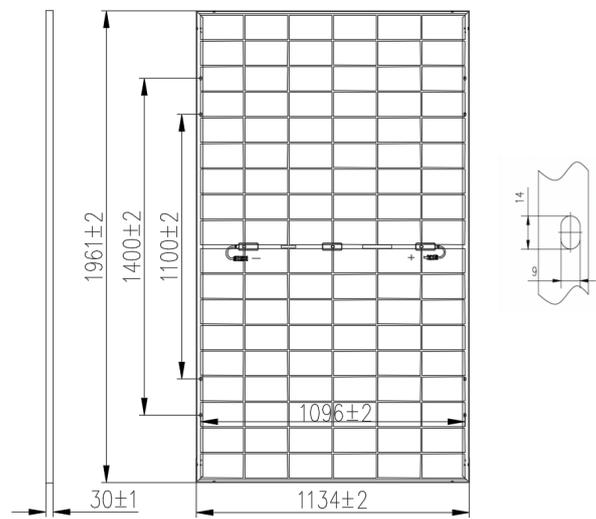
Model of PV Module

CETC-xxxTR(GDF)/108

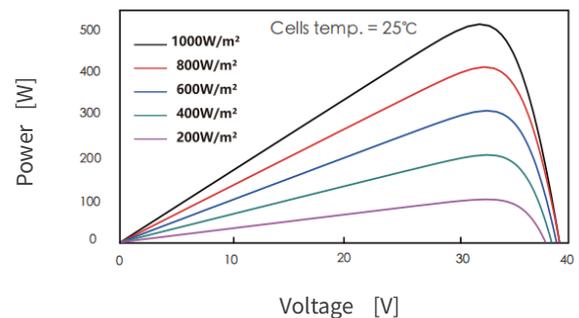
Power Range

490-505W

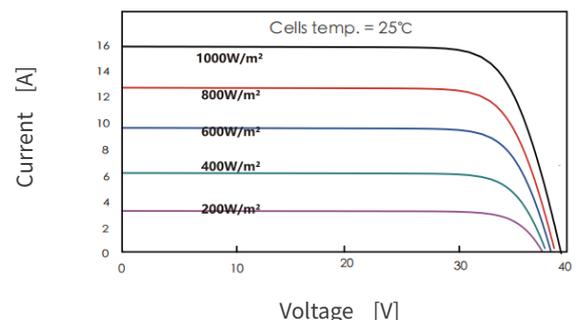
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



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