

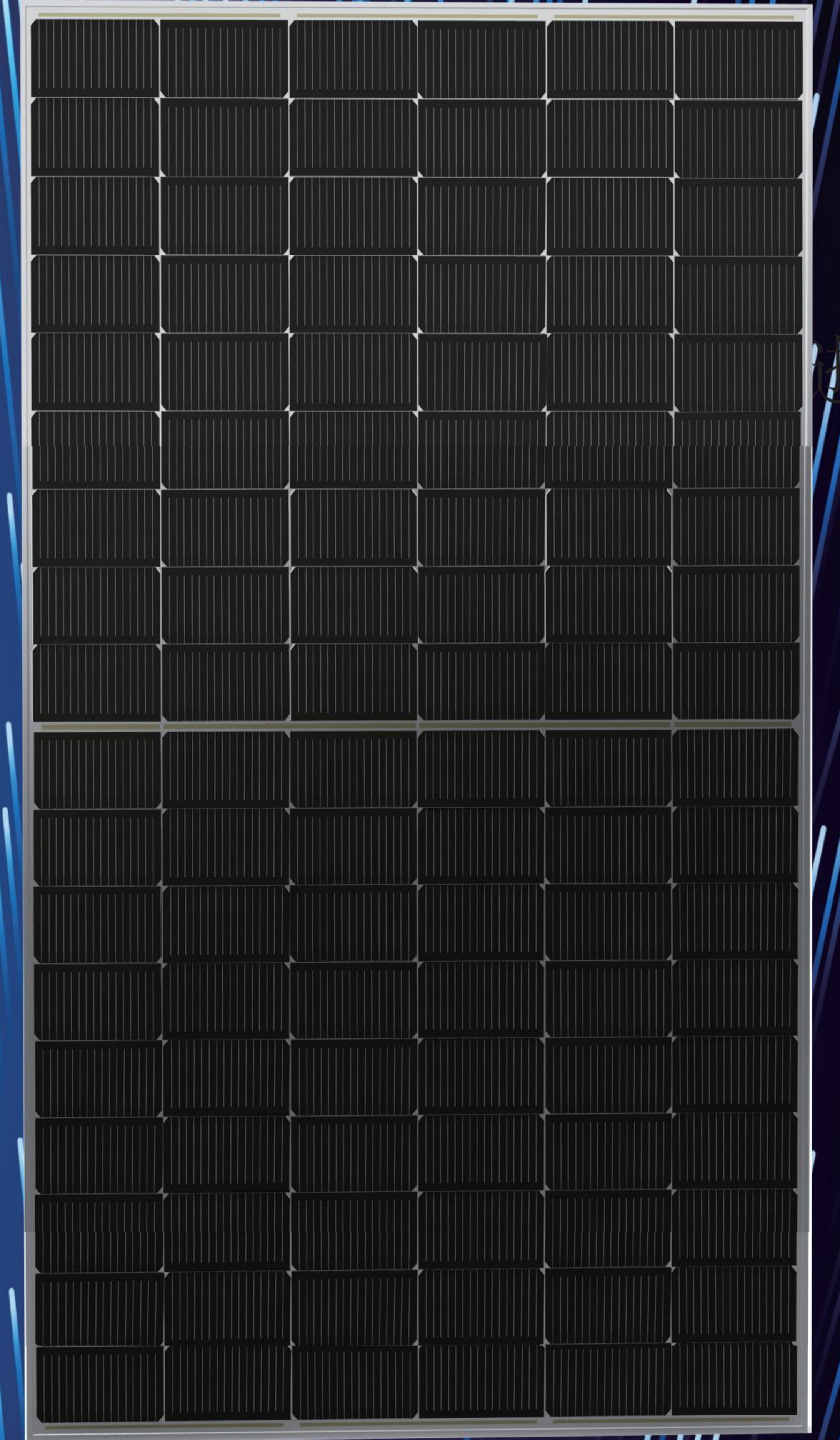
M10-MBB TOPCon Mono Bifacial Module

(108Half Cells)

(Sliver frame or black frame)

12 years Product warranty 30 years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964



410-430W /Output power

22.0% /Maximum efficiency

0~+5W /Power tolerance

Comprehensive product certification

- IEC 61215 IEC61730
- IEC TS 62804 (PID Resistant)
- IEC 62716 (Ammonia Corrosion)
- IEC 61701 (Salt Spray Corrosion)
- 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.



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).



High Returns

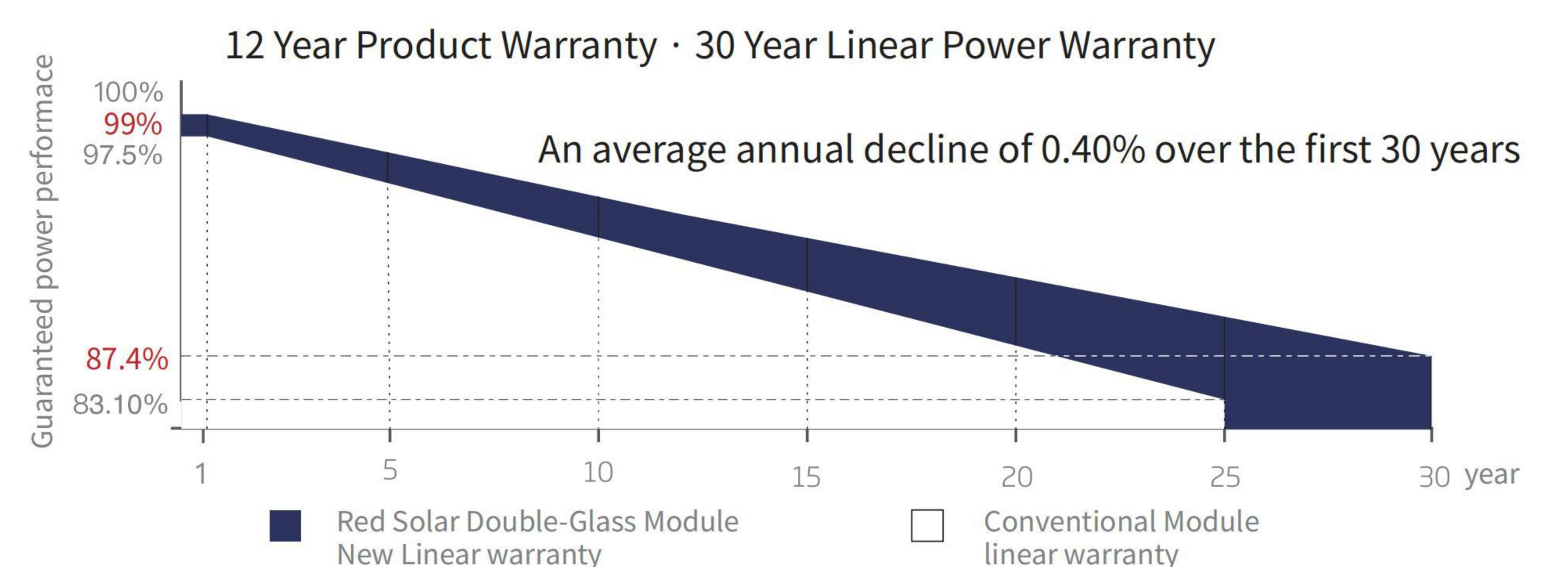
The n-type module has lower annual attenuation, better photoelectric conversion efficiency and temperature coefficient benefit, bifaciality can reach 80%.



Multi Busbar Technology

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

Excellent Power Guarantee



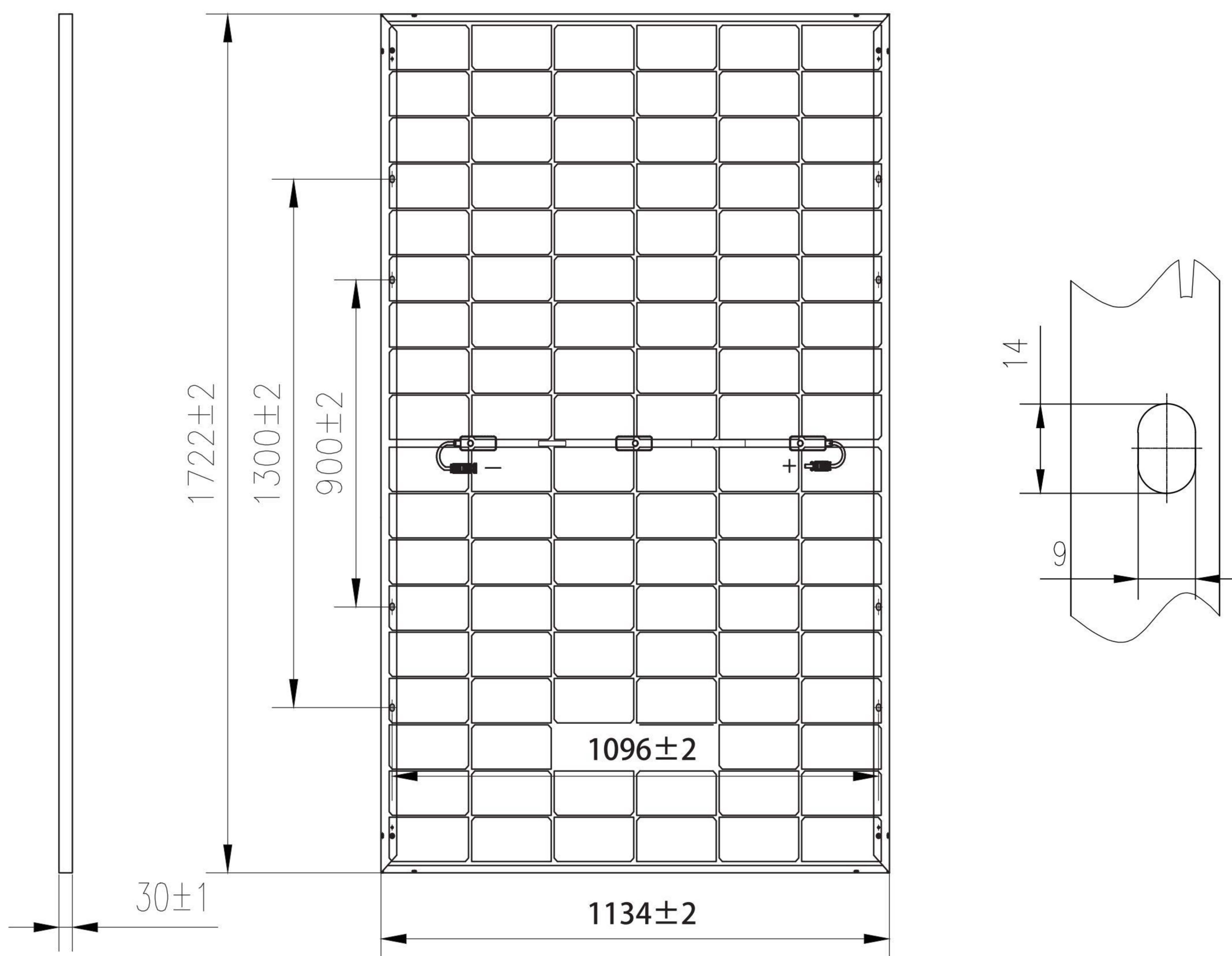
Model of PV Module

CETC-xxxT(GDF)/108

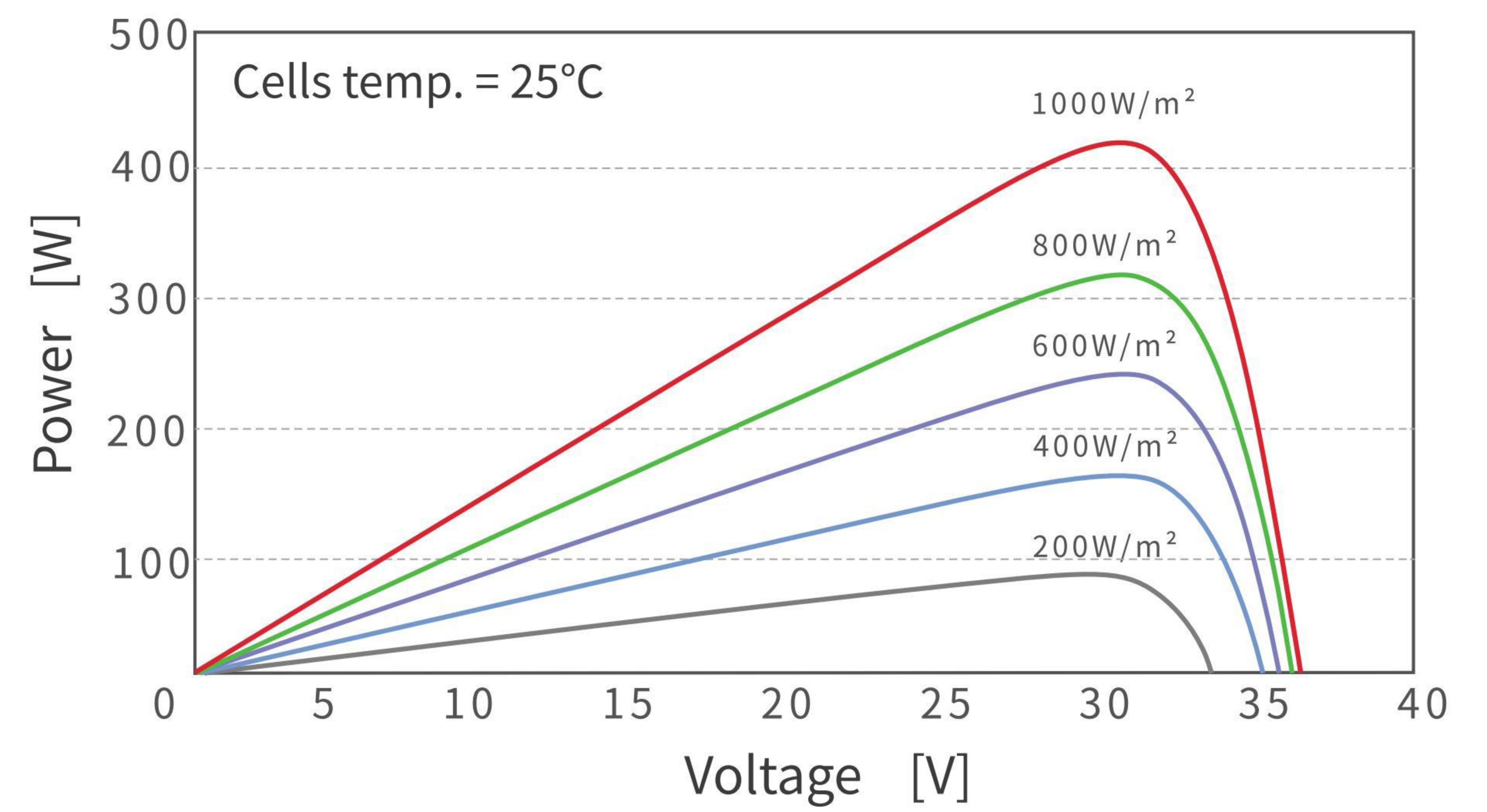
Power Range

410-430W

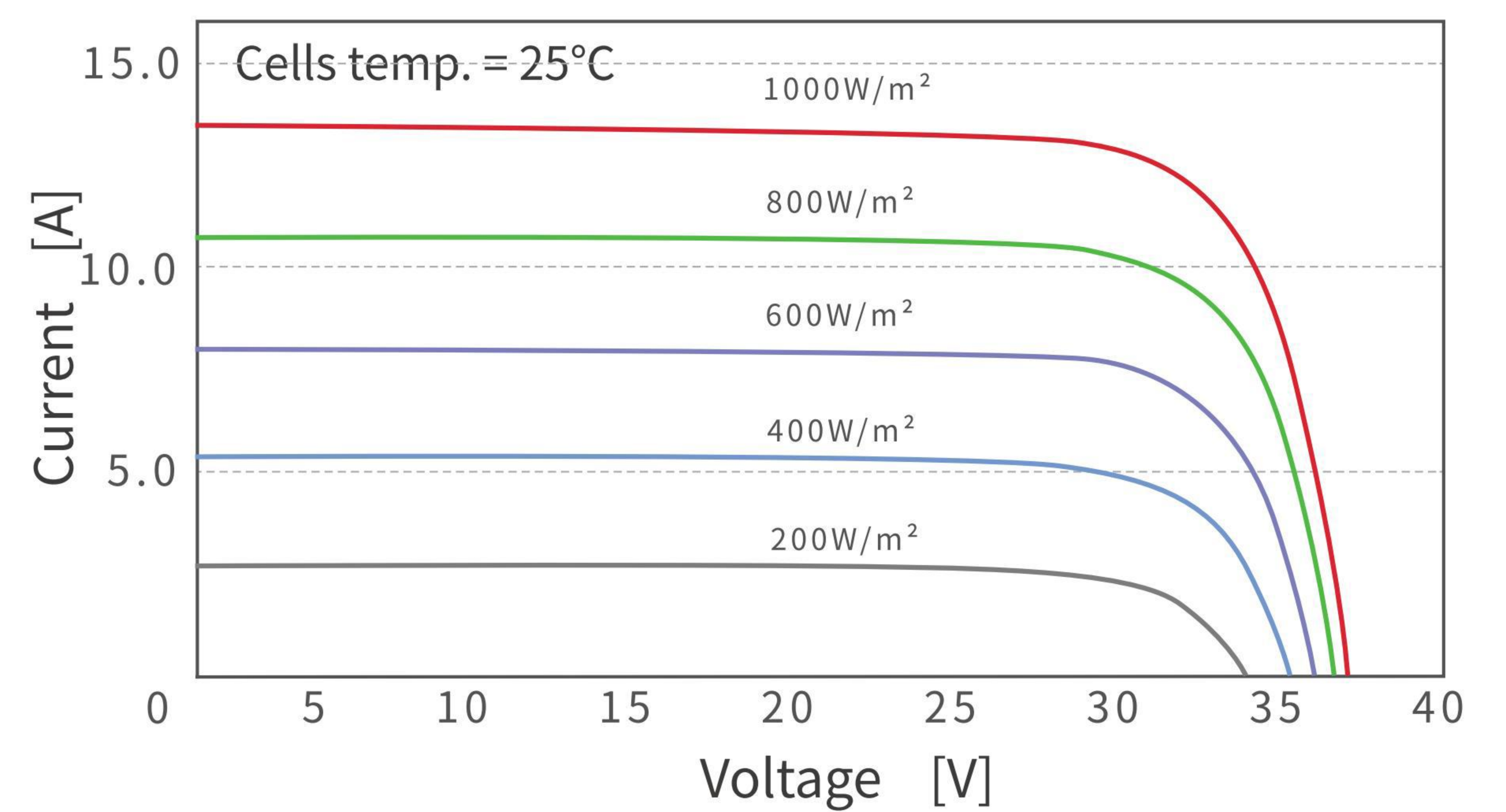
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



Electrical Parameter(STC)

Model	410T	415T	420T	425T	430T
Maximum power (W)	410	415	420	425	430
Working point voltage (V)	31.52	31.75	32.01	32.15	32.36
Working point current (A)	13.01	13.07	13.12	13.22	13.29
Open circuit voltage (V)	37.80	37.99	38.10	38.21	38.42
Short circuit current (A)	14.07	14.16	14.23	14.30	14.36
PV module efficiency	21.00%	21.25%	21.51%	21.76%	22.02%
Standard test conditions	AM1.5, Irradiance 1000w/m ² , Cell Temperature 25°C				

RearSide Power gain

	Maximum Power	430.5Wp	435.75Wp	441Wp	446.3Wp	451.5Wp
5%	Efficiency STC	22.07%	22.33%	22.60%	22.87%	23.14%
15%	Maximum Power	471.5Wp	477.25Wp	483Wp	488.8Wp	494.5Wp
	Efficiency STC	24.17%	24.46%	24.76%	25.05%	25.35%
25%	Maximum Power	512.5Wp	518.75Wp	525Wp	531.3Wp	537.5Wp
	Efficiency STC	26.27%	26.59%	26.91%	27.23%	27.55%

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	1722*1134*30mm
Number of solar cells	108Cells (2*6*9)
Weight	25Kg ±5%
Junction Box	IP68, 3 diodes
Cables	4mm ² , +: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 × 26box = 936 Pcs

Temperature Parameter Maximum Ratings

NMOT	42±2°C	Working temperature	-40~+85°C
Temperature coefficient of maximum power(Pmax)	-0.30%/°C	Maximum system voltage	1500VDC
Temperature coefficient of open circuit voltage(Voc)	-0.25%/°C	Maximum fuse rated current	30A
Temperature coefficient of short circuit current(Isc)	+0.045%/°C		

