

MBB Monocrystalline

Half-cell Module

530-550W

Output power

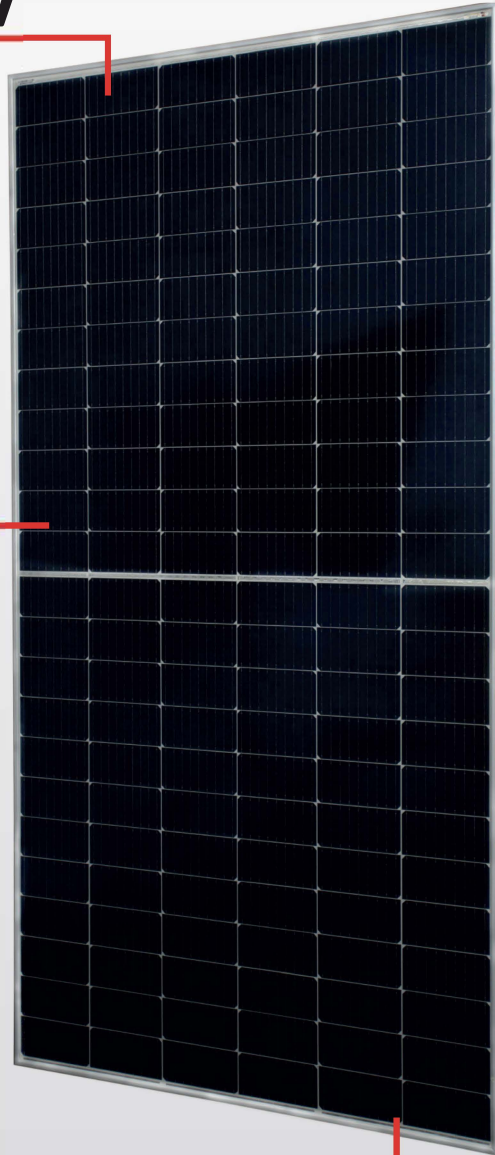
21.3%

Maximum efficiency

10-year
Warranty for product

25-year
Warranty for linear
output power

- IEC 61215
- IEC 61730
- IEC TS 62941
(PV quality Management System)
- ISO9001:2015
(Quality Management System)
- ISO14001
(Environmental Management System)
- ISO45001
(Occupational Health and
Safety Management System)
- ISO50001
(Energy management System)



PID Resistant Guarantee

Strict selection of encapsulation materials eliminates PID risk.

Hot-spot Resistance

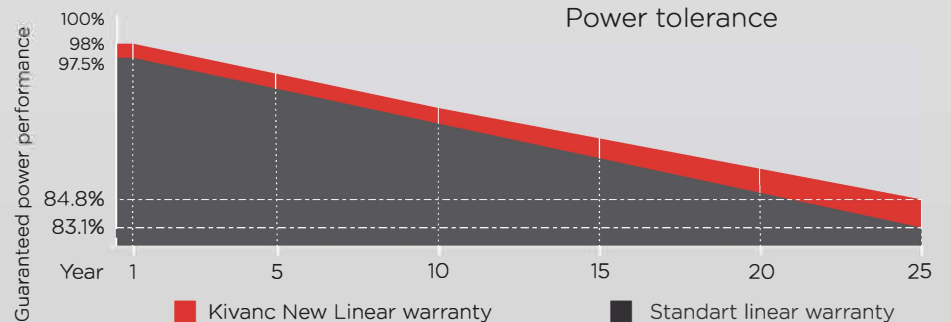
Lower internal current and power to effectively reduce hot-spot

Multi Busbar Technology

Better light utilization and current collection ability, effectively improve the power output and reliability with 10BB high efficient cell technology.

0~+5W

Power tolerance



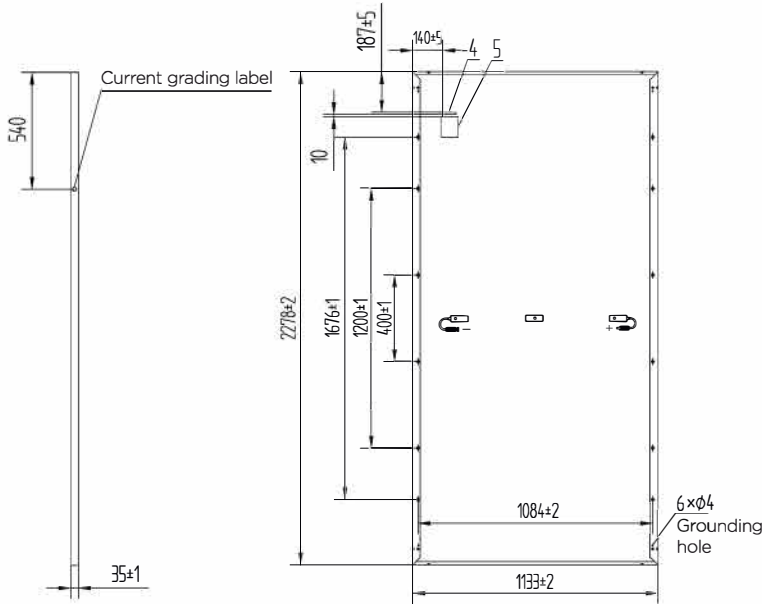
21.3%
MAX MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

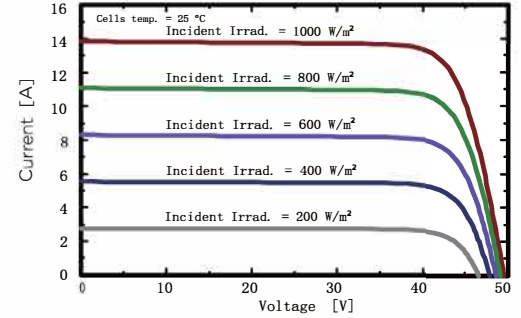
<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

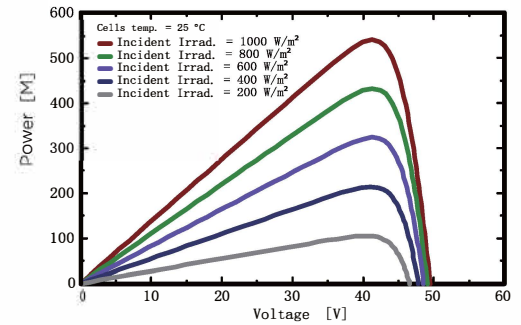
PV Module Dimension(mm)



I-V Curves of PV Module



P-V Curves of PV Module



Electrical Parameter (STC)

Model	530M	535M	540M	545M	550M
Maximum Power	530	535	540	545	550
Working point voltage	41.35	41.50	41.65	41.80	41.95
Working point current	12.83	12.90	12.97	13.04	13.12
Open circuit voltage	49.20	49.35	49.50	49.65	49.80
Short circuit current	13.72	13.78	13.85	13.92	13.98
PV module efficiency	20.74%	20.93%	21.13%	21.32%	21.52%
Standart test conditions	Atmospheric quality Am 1.5, Irradiance 1000w/m ² , Cell Temperature 25°C				

Mechanical Parameters

Module size	2278x1133x35mm
Number of solar cells	144PCS (2x6x12)
Weight	27Kg + 5%
Junction Box	IP68, MC4
Cables	4mm ² , +300mm&-200mm (Customizable)
Front plate glass	3.2mm, Ultra white&Minus reflection film toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Electrical Parameter (NMOT)

Model	530M	535M	540M	545M	550M
Maximum Power	395	398	402	405	409
Working point voltage	37.95	38.09	38.25	38.39	38.57
Working point current	10.41	10.47	10.52	10.57	10.62
Open circuit voltage	45.8	46.00	46.10	46.20	46.40
Short circuit current	11.07	11.13	11.19	11.24	11.29
NMOT	The irradiance is 800W/m, the ambient temperature is 20 degrees, and the wind speed is 1m/s				
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.					

Temperature Parameter

NMOT	45±2°C
Temperature coefficient of maximum power(Pmax)	-0.35%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.28%/°C
Temperature coefficient of short circuit voltage(Isc)	+0.048%/°C

Maximum Ratings

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

Packaging&Transport

40'HQ container	31 Pcs/box x 20 box = 620 Pcs
13.5m truck transport	31 Pcs/box x 22 box = 682 Pcs