

KVNC-XXXB-72H-GGT

Half-cell Module

570-595W

Output power

22.84%

Maximum efficiency

12-year

Warranty for product

30-year

Warranty for linear power output

IEC 61215
IEC 61730
IEC 62804
IEC 60068
IEC 61701
IEC 62716
UL 61730
ISO9001:2015

(Quality Management System)

ISO14001

(Environmental Management System)

ISO45001

(Occupational Health and Safety Management System)

ISO50001

(Energy Management System)



M10 Half Cell Technology

M10 size half cell technology that increases the energy production of the module.

N-type Technology

N-type modules with Tunnel Oxide Passivating contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with HOT 3.0 technology offer better reliability and efficiency.

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Anti-PID Guarantee

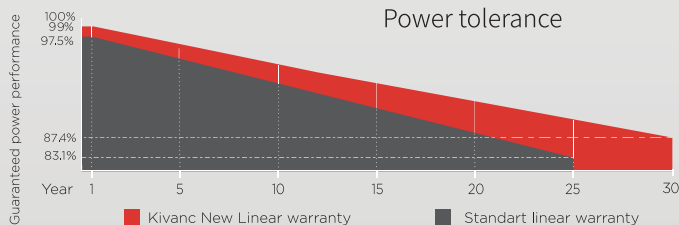
Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

0~+5W

Power tolerance



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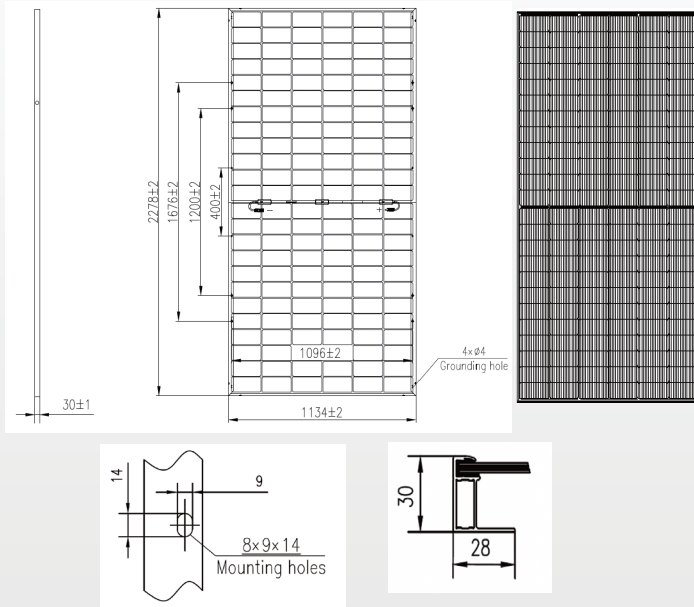
22.84%
MAX MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

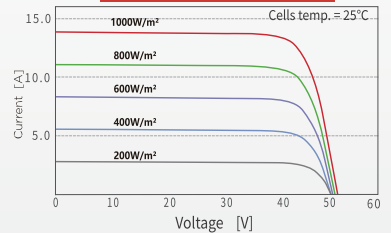
<1.0%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-30
POWER DEGRADATION

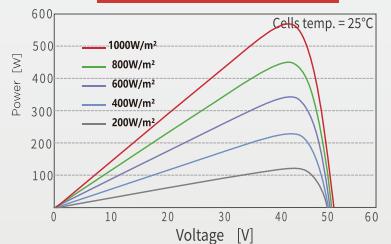
PV module dimensions (mm)



I-V Curves of PV Module



P-V Curves of PV Module



Electrical Parameter(STC)

Model	570B	575B	580B	585B	590B	595B
Maximum Power	570	575	580	585	590	595
Working point voltage	43.85	43.99	44.14	44.28	44.43	44.57
Working point current	13.00	13.07	13.14	13.21	13.28	13.35
Open circuit voltage	52.68	52.87	53.06	53.25	53.44	53.63
PV module efficiency	22.06	22.25	22.45	22.64	22.84	23.03
Short circuit voltage	13.70	13.77	13.84	13.91	13.98	14.05
Standard test conditions	Atmospheric quality Am 1.5, Irradiance 1000W/m², Cell Temperature 25°C					

Electrical Characteristics With 10%

Model	570B	575B	580B	585B	590B	595B
Maximum Power	630	635	640	645	650	655
Working point voltage	43.72	43.83	43.94	44.05	44.15	44.26
Working point current	15.16	15.24	15.32	15.39	15.47	15.55
Open circuit voltage	52.73	52.92	53.11	53.30	53.49	53.68
Short circuit current	14.41	14.49	14.57	14.64	14.72	14.80
Irradiation Ratio(rear/ front)	10%					

Temperature Parameter

NMOT	42 ±2°C
Temperature coefficient of maximum power(Pmax)	-0.30%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.26%/°C
Temperature coefficient of short circuit current(Isc)	+0.04%/°C

Maximum Ratings

Working temperature	-40~ +85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	30A

Packaging&Transport

13.5m truck transport	36Pcs/box x 21 box = 756 Pcs
40HQ container transport	36Pcs/box*20box=720Pcs

Mechanical Parameters

Cell Type:	N-type Mono-16BB
Module size	2278x1134x30mm
Number of solar cells	144PCS (2x6x12)
Weight	31.8 Kg
Junction Box	IP68
Cables	4mm², +300mm&-400mm (Customizable)
Front glass	2.0mm, Anti-Reflection (coating)
Back glass	2.0mm, Heat Strengthened glass
Frame	Anodized Aluminium Alloy
Static load on the front	5400Pa
Static load on the back	2400Pa