

KVNC-XXXB-78H-GGT

Half-cell Module

615-645W

Output power

23.07%

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

ISO9001:2015

(Quality Management System)

ISO14001

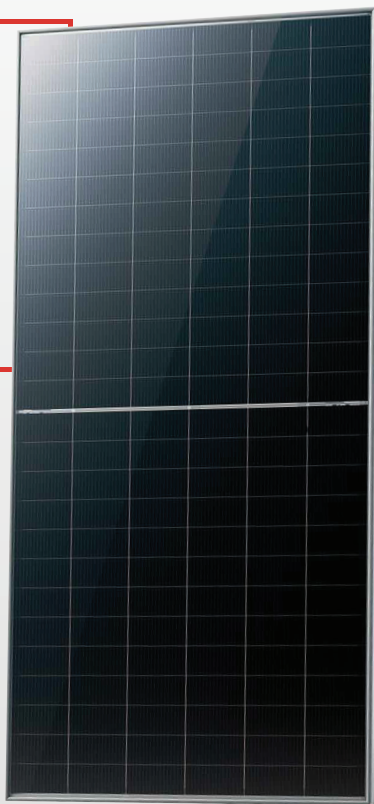
(Environmental Management System)

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

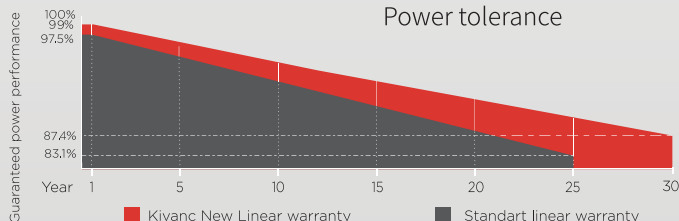
Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

SMBB Technology

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

0~+5W

Power tolerance



KIVANÇ

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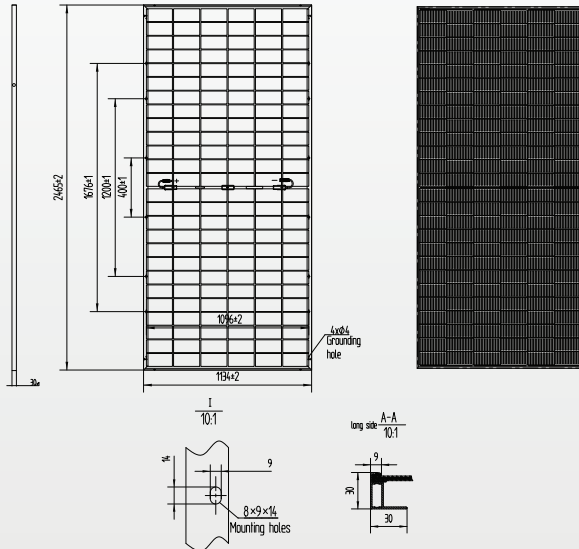
23.07%
MAX MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

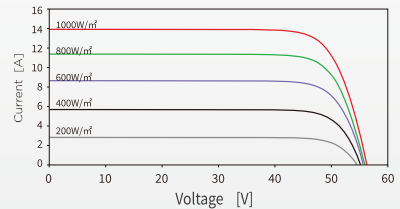
<1.0%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-30
POWER DEGRADATION

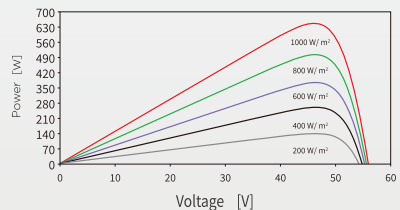
PV module dimensions (mm)



I-V Curves of PV Module



P-V Curves of PV Module



Electrical Parameter(STC)

Model	615B	620B	625B	630B	635B	640B	645B
Maximum Power	615	620	625	630	635	640	645
Working point voltage	47.53	47.66	47.78	47.91	48.03	48.16	48.28
Working point current	12.94	13.01	13.08	13.15	13.22	13.29	13.36
Open circuit voltage	56.91	57.10	57.29	57.48	57.67	57.86	58.05
Short circuit current	13.64	13.71	13.78	13.85	13.92	13.99	14.06
PV module efficiency	22.00	22.18	22.35	22.54	22.71	22.89	23.07
Standard test conditions	Atmospheric quality Am 1.5, Irradiance 1000W/m², Cell Temperature 25°C						

Electrical Parameter(BNPI)

Model	615B	620B	625B	630B	635B	640B	645B
Maximum Power	685	690	695	700	705	710	715
Working point voltage	47.75	47.84	47.93	48.02	48.11	48.19	48.28
Working point current	14.34	14.42	14.50	14.58	14.65	14.73	14.81
Open circuit voltage	56.96	57.15	57.34	57.53	57.72	57.91	58.10
Short circuit current	15.09	15.17	15.25	15.33	15.40	15.48	15.56
BNPI	1000W/m² irradiance on the front side, and 135W/m² irradiance on the rear side (Cell Temperature 25°C, AM=1.5)						

Temperature Parameter

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 30 box = 720Pcs
40HQ container transport	36Pcs/box*16box=576Pcs

Mechanical Parameters

Cell Type	N-type Mono-16BB
Module size	2465X1334X30mm
Number of solar cells	156PCS(2X6X13)
Weight	34.0Kg
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