

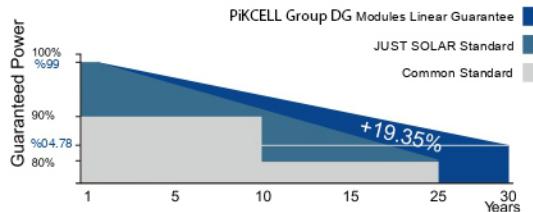
PiK 480-500M(120)



16BB HALF-CELL N-Type TOPCon Bifacial Double Glass Monocrystalline PV Module

480-500W **22.47%** **0.40%**
POWER RANGE **MAXIMUM EFFICIENCY** **YEARLY DEGRADATION**

12 **12 YEARS PRODUCT WARRANTY** **30** **30 YEARS OUTPUT GUARANTEE**



*Please check the valid version of Limited Product Warranty which is officially released by PiKCELL Group



IEC 61215/IEC 61730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

*As there are different certification requirements in different markets, please contact your local sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

Key Features



Excellent Cells Efficiency

SMBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Reaction to Fire Class 1

In conformity with standard UNI 9177:1987, reaction to fire class 1.



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Adapt To Harsh Outdoor Environment

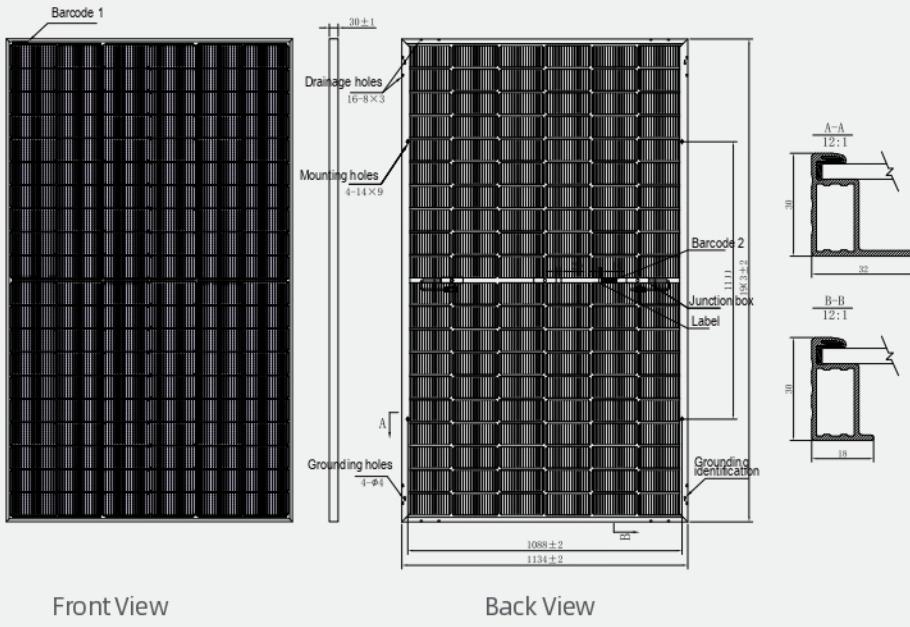
Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

DIMENSIONS OF PV MODULE(mm)

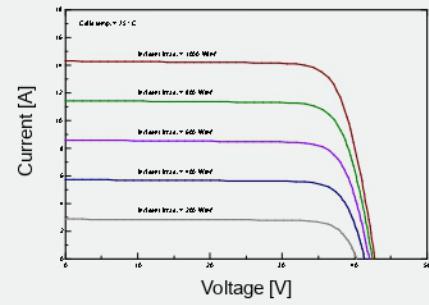


Front View

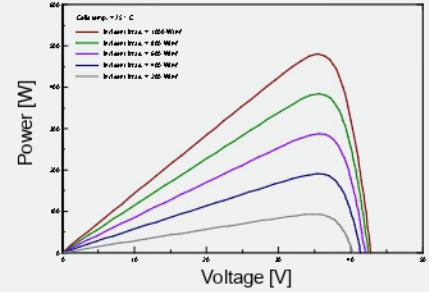
Back View

*Remark: customized frame color and cable length available upon request

I-V CURVES OF PV MODULE(480W)



P-V CURVES OF PV MODULE(480W)



ELECTRICAL CHARACTERISTICS | STC*

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	480	485	490	495	500	Solar cells	N-type Monocrystalline
Maximum Power Voltage Vmp(V)	35.50	35.70	36.10	36.30	36.50	Cells orientation	120 (6x20)
Maximum Power Current Imp(A)	13.52	13.59	13.57	13.64	13.70	Module dimension	1909x1134x30 mm (With Frame)
Open Circuit Voltage Voc(V)	42.80	43.00	43.20	43.40	43.60	Weight	26.5±1.0 kg
Short Circuit Current Isc(A)	14.31	14.38	14.45	14.52	14.59	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	22.24	22.47	22.70	22.93	23.16	Junction box	IP 68, 3 diodes
Cables	4 mm ² , 350 mm					Connectors*	MC4-compatible

*The data above is for reference only and the actual data is in accordance with the practical testing

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

*Measuring uncertainty: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

*please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*

TEMPERATURE RATINGS

WORKING CONDITIONS

Maximum Power Pmax(Wp)	351.70	355.50	359.00	362.90	366.30	NM OT	44°C ±2°C	Maximum system voltage	1500 V DC
Maximum Power Voltage Vmp(V)	32.80	33.00	33.20	33.40	33.60	Temperature coefficient of Pmax	(-0.30±0.03)%/°C	Operating temperature	-40°C~+85°C
Maximum Power Current Imp(A)	10.71	10.76	10.82	10.87	10.92	Temperature coefficient of Voc	-0.25%/°C	Maximum series fuse	30 A
Open Circuit Voltage Voc(V)	39.80	40.00	40.20	40.40	40.60	Temperature coefficient of Isc	0.046%/°C	Front Side Maximum Static Loading	Up to 5400Pa
Short Circuit Current Isc(A)	11.38	11.44	11.49	11.55	11.60	Refer.Bifacial Factor	(80±10)%	Rear Side Maximum Static Loading	Up to 2400Pa

*NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

PACKAGING CONFIGURATION *

Front power Pmax/W	475	480	485	490	495	500	Piece/Box	36	
Total power Pmax/W	594	600	606	612	618	624	Piece/Container(40'HQ)	864	
Vmp/V(Total)	35.40	35.60	35.80	36.00	36.20	36.40	*Customized packaging is available upon request.		
Imp/A(Total)	16.77	16.85	16.93	17.00	17.07	17.14	*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.		
Voc/V(Total)	41.70	42.90	43.10	43.30	43.50	43.70	*Caution: Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.		
Isc/A(Total)	17.74	17.83	17.92	18.01	18.10	18.19			

*Bifacial Gain: The additional gain in the back side compared to the power of the front side at the standard test condition. It depends on mounting structure, height, tilt angle etc. and a little off the ground.

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Note: Specifications included in this datasheet are subject to change without notice. PiKCELL GROUP reserves the right of final interpretation © PiKCELL Group 2023

No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document