PiK 585-600M (132)

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

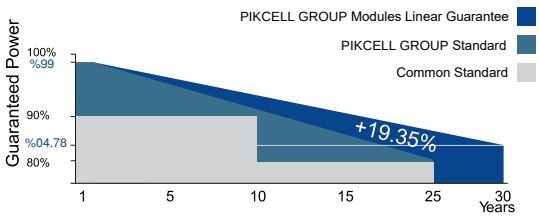
585-600W
POWER RANGE

23.22%
MAXIMUM EFFICIENCY

0.40%
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 LIMITED.

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.

Better Weak Illumination Response

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

Anti PID

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

Adapt To Harsh Outdoor Environment

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

Reaction to Fire Class 1

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

Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

Bifacial Technology

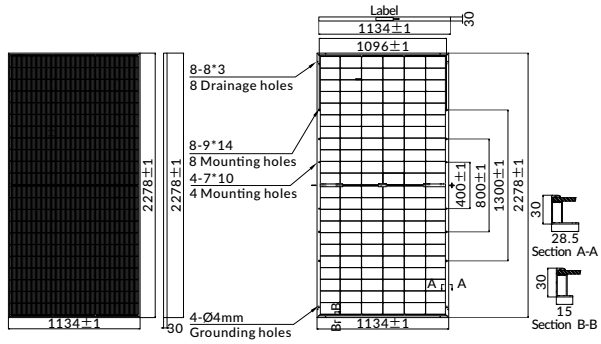
Up to 25% additional power gain from back side depending on albedo.

PiK 585-600M (132)

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

MECHANICAL CHARACTERISTICS

Solar Cells		N-type Mono
No. of Cells		132 (6x22)
Dimensions		2278 x 1134 x 30mm
Weight		31.5kg
Front Glass		2.0mm coated semi-tempered glass
Back Glass		2.0mm semi-tempered glass
Junction Box		Ip68 rated (3 by pass diodes)
Output Cables		4.0mm²
		280mm (+) / 350mm (-)
		Length can be customized
Connectors		Mc4 compatible
Mechanical load test		5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	585		590		595		600	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	585W	444W	590W	447W	595W	451W	600W	455W
Open Circuit Voltage (Voc)	51.48V	47.88V	51.67V	48.05V	51.86V	48.23V	52.05V	48.41V
Short Circuit Current (Isc)	14.50A	11.89A	14.55A	11.93A	14.61A	11.98A	14.66A	12.02A
Voltage at Maximum power (Vmpp)	42.78V	39.70V	42.94V	39.85V	43.10V	39.99V	43.25V	40.13V
Current Maximum Power (Impp)	13.70A	11.18A	13.76A	11.23A	13.83A	11.28A	13.89A	11.33A
MODULE EFFICIENCY (%)	22.64%		22.83%		23.02%		23.22%	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G **NMOT:** Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

BIFACIAL OUTPUT-REARSIDE POWER GAIN

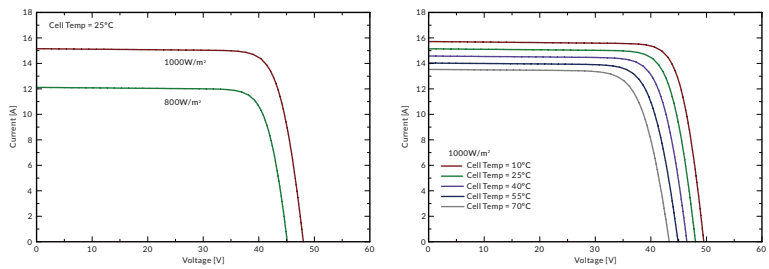
5%	Maximum power (Pmax)	614W	620W	625W	630W
	Module Efficiency STC (%)	23.77%	23.97%	24.17%	24.38%
15%	Maximum power (Pmax)	673W	679W	684W	690W
	Module Efficiency STC (%)	26.04%	26.25%	26.47%	26.70%
25%	Maximum Power (Pmax)	731W	738W	744W	750W
	Module Efficiency STC (%)	28.30%	28.54%	28.78%	29.03%

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	20
Pieces per container	720

I-V CURVE

585W



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun Series Fuse Rating	30A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%°C
Temperature Coefficient of Voc	-0.25%°C
Temperature Coefficient of Isc	+0.045%°C

Tel: +389 2 2446 999 E-mail: contact@pikcellgroup.mk