

*Please check the valid version of Limited Product Warranty which is officially released by PIKCELL GROUP LIMITED.

PiK 540-560M (144)

10BB HALF-CELL

Monocrystalline PERC PV Module

540-560W

POWER RANGE

21.7%

MAXIMUM EFFICIENCY

0.55%

YEARLY DEGRADATION



12 YEARS PRODUCT WARRANTY



25 YEARS OUTPUT GUARANTEE



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.



TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Excellent Quality Management System

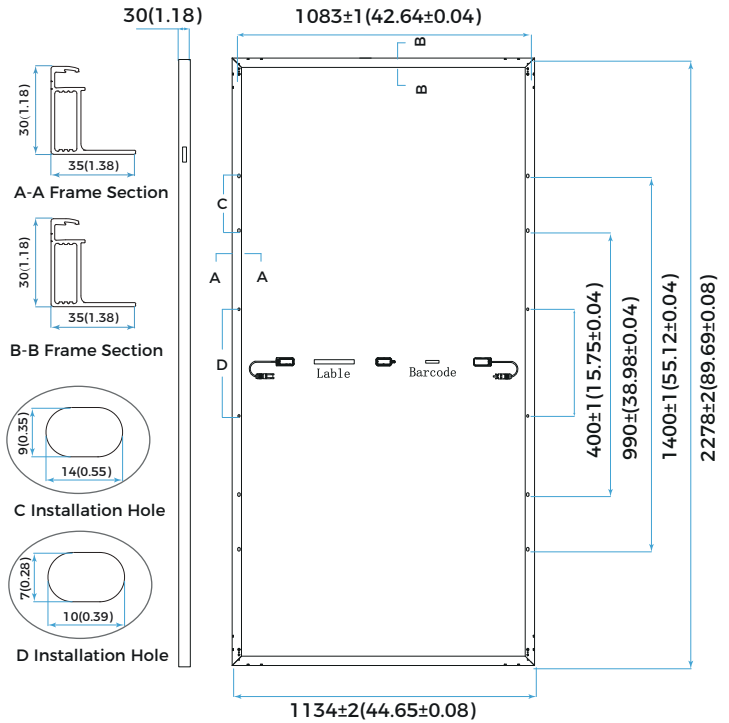
Warranted reliability and stringent quality assurances well beyond certified requirements.

Unit: mm(inch)
Mechanical Parameters

Solar Cell	Mono PERC 182mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 30mm(89.69 × 44.65 × 1.18in)
Weight	27.6kg(60.85 lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm ² (IEC), 12 AWG(UL) +400/-200mm(+15.75/-7.87in.) or customized
Connector	RY01 or similar
Front Cover	3.2mm (0.13in.) AR Tempered glass
Container	36 pcs/Pallet, 720 pcs/40' HQ

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40°C ~ +85°C(-40°F ~ +185°F)
Max. Fuse Rating	25A
Frontside Max. Loading	5400Pa(112lb/ft ²)
Backside Max. Loading	2400Pa(50lb/ft ²)
Fire Resistance	IEC Class C


Electrical Characteristics - STC

 Irradiance 1000 W/m², cell temperature 25 °C, AM1.5, Test uncertainty for Pmax: ±3%

Maximum Power at STC (Pmax/W)	560	555	550	545	540
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	42.28	42.12	41.96	41.80	41.64
Optimum Operating Current (Imp/A)	13.25	13.18	13.11	13.04	12.97
Open Circuit Voltage (Voc/V)	50.20	50.05	49.90	49.75	49.60
Short Circuit Current (Isc/A)	14.14	14.07	14.00	13.93	13.86
Module Efficiency	21.7%	21.5%	21.3%	21.1%	20.9%

Electrical Characteristics - NMOT

 Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

Maximum Power at NMOT (Pmax/W)	423.7	419.9	416.0	412.2	408.5
Optimum Operating Voltage (Vmp/V)	40.09	39.94	39.79	39.64	39.49
Optimum Operating Current (Imp/A)	10.57	10.51	10.46	10.40	10.34
Open Circuit Voltage (Voc/V)	47.61	47.46	47.32	47.18	47.04
Short Circuit Current (Isc/A)	11.41	11.35	11.30	11.24	11.18

Warranty

Product Workmanship Warranty	12 Years
Linear Power Output Warranty	25 Years
First Year Degradation	2%
Annual Power Degradation	0.55%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.048%/°C

