



Monocrystalline PERC PV Module

80-105W

POWER RANGE

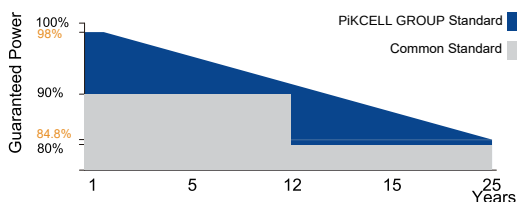
16.17%

AVERAGE

MAXIMUM EFFICIENCY

0.55%

YEARLY DEGRADATION



*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



25 YEARS OUTPUT GUARANTEE



12 YEARS PRODUCT WARRANTY

*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.



Excellent Quality Management System

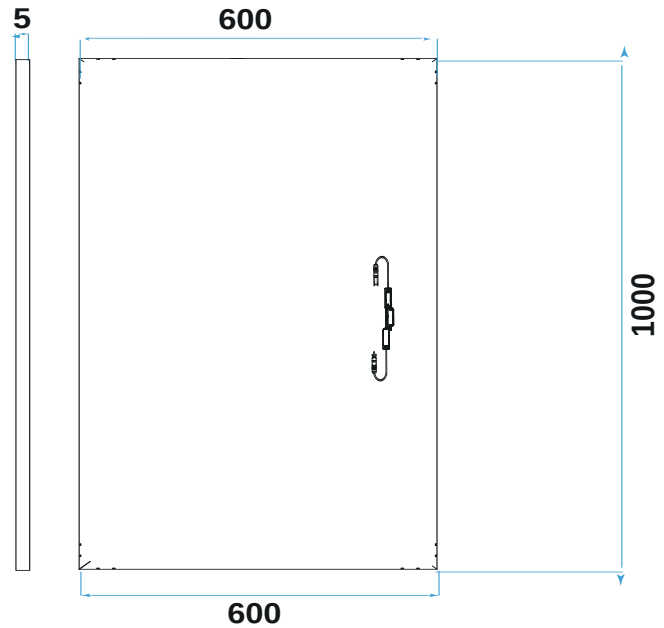
Warranted reliability and stringent quality assurances well beyond certified requirements.

Mechanical Parameters

Solar Cell	Mono PERC 158mm
No. of Cells	18 (3 × 6)
Dimensions	1000 × 600 × 5mm
Weight	7 kg
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	4mm Partially Tempered - Low Iron glass
Container	36 pcs/Pallet, 720 pcs/40' HQ

Glass Parameters

Fire resistance: npd (no performance determined)
Reaction to fire: A1
Behavior under stress from fire from outside: npd
Bullet resistance: npd
Explosion pressure resistance: npd
Burglary resistance: npd
Resistance to pendulum impact: npd
Thermal shock resistance: $\Delta T = 100\text{ K}$
Resistance to snow, wind – permanent loads or other loads (mm): 4
Direct airborne sound insulation R_w (C, Ctr) dB: 30 (-2, -4)
U-value (W/m ² K): 5.8
Light transmission t_V [%]: 91
Light reflection r_V [%]: 8
Energy transmission g [%]: 91
Energy reflection r_E [%]: 8



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 A

Electrical Characteristics - STC

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

Colour	Red	Blue	Yellow	Purple	Dark Grey
Maximum Power at STC (Pmax/W)	100	100	100	105	80
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	9.69	9.60	9.66	9.70	11.08
Optimum Operating Current (Imp/A)	10.28	10.68	10.40	10.87	7.191
Open Circuit Voltage (Voc/V)	11.08	11.09	11.07	11.13	14.24
Short Circuit Current (Isc/A)	11.29	11.53	11.12	11.66	7.73
Module Efficiency	16.67%	16.67%	16.67 %	17.5%	13.33%

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

Current-Voltage & Power-Voltage Curve (100)W

