

Monocrystalline PERC PV Module

170-220W

POWER RANGE

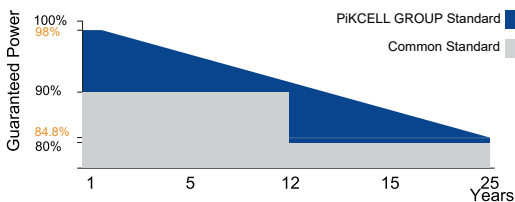
20.5%

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.



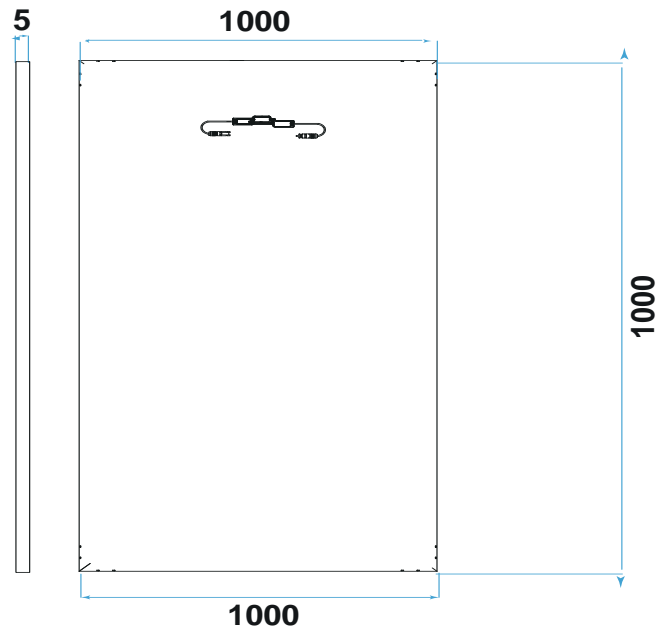
Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

Unit: mm

Mechanical Parameters

| | |
|--------------|---|
| Solar Cell | Mono PERC 158mm |
| No. of Cells | 36 (6 × 6) |
| Dimensions | 1000 × 1000 × 5mm |
| Weight | |
| 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) | 205 | 215 | 170 | 215 | 220 |
| Power Tolerance (W) | 0 ~ +5 | | | | |
| Optimum Operating Voltage (Vmp/V) | 20.68 | 20.74 | 15.92 | 20.62 | 20.63 |
| Optimum Operating Current (Imp/A) | 9.91 | 10.33 | 10.89 | 10.51 | 10.60 |
| Open Circuit Voltage (Voc/V) | 25.11 | 25.22 | 18.16 | 25.18 | 25.16 |
| Short Circuit Current (Isc/A) | 10.23 | 10.59 | 11.34 | 10.95 | 11.14 |
| Module Efficiency | 20.5% | 21.5% | 17% | 21.5% | 22% |

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 (170)W

