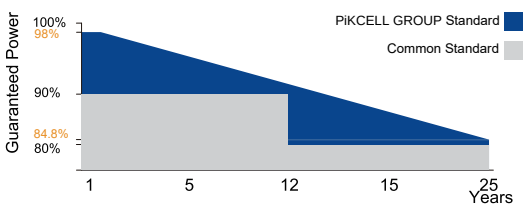
PiK 80-105M COLORED (18)

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

*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.

25 YEARS OUTPUT GUARANTEE

12 YEARS PRODUCT WARRANTY

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 Managerment System

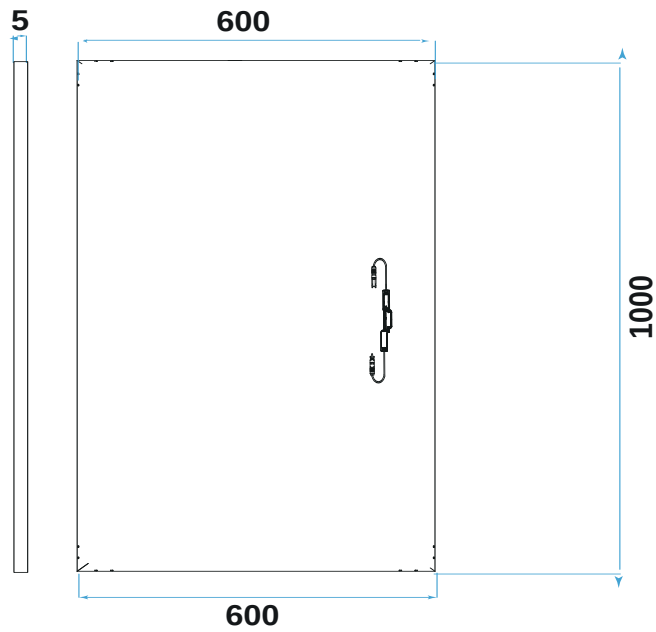
Warranted reliability and stringent quality assurances well beyond certified requirements.

PiK 80-105M COLORED (18)

Unit: mm

Mechanical Parameters

Solar Cell	Mono PERC 158mm
No. of Cells	18 (3 × 6)
Dimensions	1000 × 600 × 5mm
Weight	
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (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: ΔT = 100 K

Resistance to snow, wind – permanent loads or other loads (mm): 4

Direct airborne sound insulation Rw (C, Ctr) dB: 30 (−2, −4)

U-value (W/m²K): 5.8

Light transmission tV [%]: 91

Light reflection rV [%]: 8

Energy transmission g [%]: 91

Energy reflection rE [%]: 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/ft²)
Backside Max. Loading	2400Pa(50lb/ft²)
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%

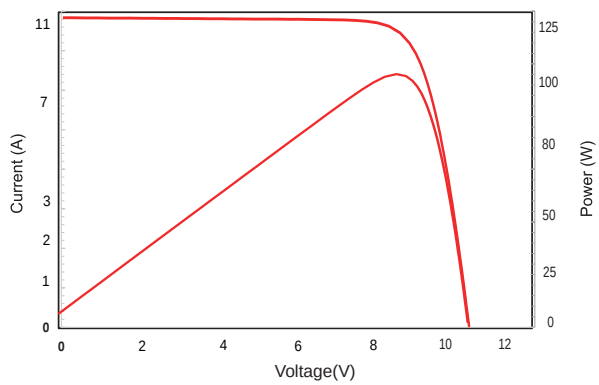
Warranty

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



Tel：+398 2 2446 999 E-mail：contact@pikcellgroup.mk