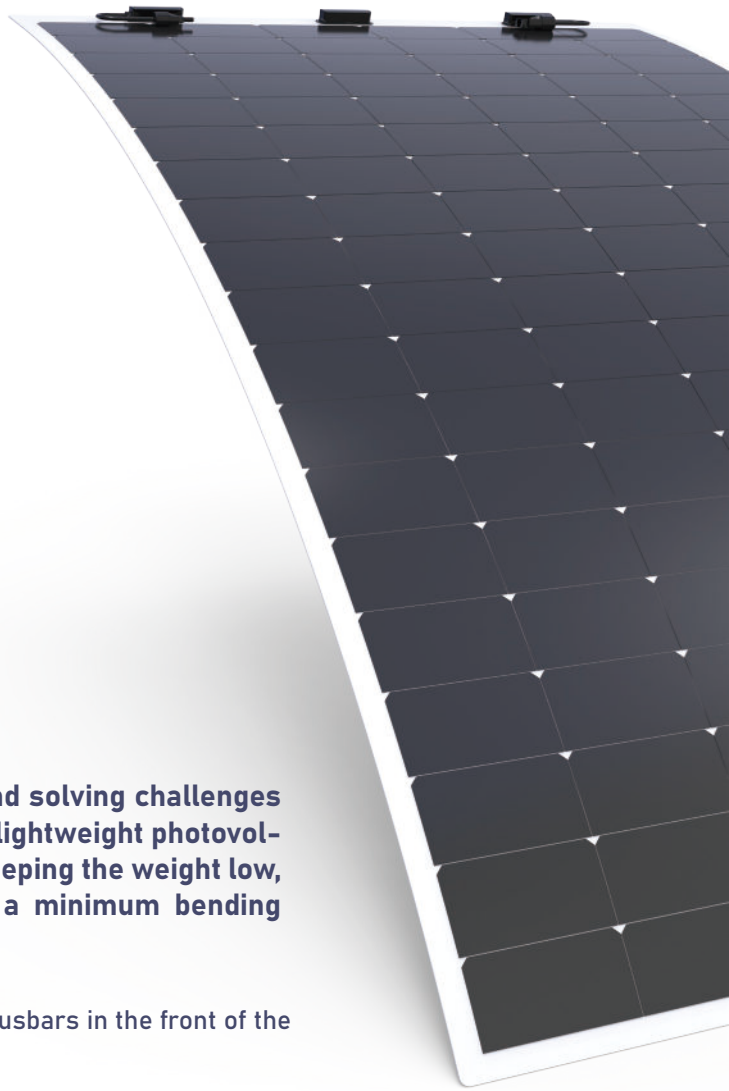
PEAKUP POWER

DANDELION

Light, flexible, perfect

2nd Gen.

PKQJH57I 435~445W



More hotspot resistance

based on our new PEC technology

More contact reliability

as there are no contact ribbons used, soldering stress is eliminated for reliable performance

More moisture barrier

as the more layers form a vapor barrier

More environmentally friendly

Lead-free and easier to recycle

The next level of lightweight photovoltaic – addressing and solving challenges of people and companies which are in need for glass and lightweight photovoltaic by using our innovative PEC-BC technology – while keeping the weight low, ultra-thin, and flexible: just 2.5 kg/m², 2mm thin, with a minimum bending radius of 0.3m.

- Higher output - 2% more out of every module due to “miss” of busbars in the front of the cell and no shade created
- Higher reliability - as the lower degradation rate, superiority in fire-resistance, excellent performance in dynamic load (wind, snow, hail etc.) make them more durable and reliable
- Higher performance – due to optimized heat transmission using copper

CE TÜVNORD Type Tested MPA STUTTGART Materialprüfungsanstalt Universität Stuttgart

15 YEARS Product Warranty

25 YEARS Linear Performance Warranty

For details regarding tests and certificates please refer to the rear page.

Jiangsu Peakup Power Technology Co.,Ltd. | en.peakuppower.com | +86 25 86108516 | info@peakuppower.com

PEAKUP POWER

PKQJH571 435~445W

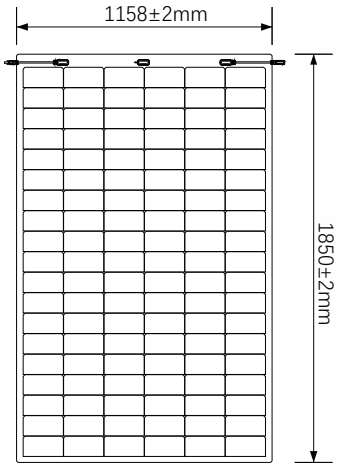
23%	0~3%	⩽2%	0.55%	BC HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION	Lower operating temperature

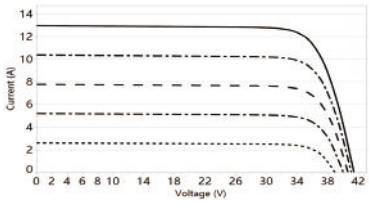
TYPICAL ELECTRICAL PARAMETERS

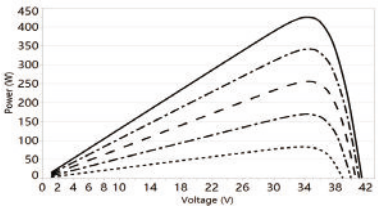
Model	PKQJH571435		PKQJH571440		PKQJH571445	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp) /W	435	328	440	332	445	336
Rated Current (Impp) /A	12.48	10.00	12.59	10.08	12.69	10.16
Rated Voltage (Vmpp) / V	34.88	32.86	34.98	32.95	35.08	33.06
Short Circuit Current (Isc) /A	13.31	10.90	13.40	10.97	13.49	11.05
Open Circuit Voltage (Voc) /V	41.53	39.58	41.63	39.67	41.73	39.77
Effective Module Efficiency(η) /%	22.46%		22.72%		22.98%	

STC(Standard Testing Conditions): Irradiance 1000W/m², Air Mass 1.5, Cell Temperature 25℃, Measuring Tolerance ±3%

NOCT(Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃, Air Mass 1.5, Wind speed 1m/s







ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85℃
Maximum Series Fuse Rating	25A
Safety Class	II
Fire Rating (IEC 61730)	Class C
Maximum System Voltage	DC1500V

MECHANICAL CHARACTERISTICS

Cell Type	Mono-crystalline BC, 114(6 x 19)
Effective Module Dimension(L×W)	1763.6×1098.2mm
Dimension (L×W×H)	1850 x 1158 x 2mm(72.8x45.6x0.07 inches)
Weight	5.2±0.5kg
Cable	4mm²(IEC), 450mm or customized length
Junction Box	IP68 with three bypass diodes
Connector	Original MC4

TEMPERATURE RATINGS

Voltage Temperature Coefficient	-0.220%/℃
Current Temperature Coefficient	+0.050%/℃
Power Temperature Coefficient	-0.240%/℃
Tolerance	0~+5W
NOCT	43±2℃

PACKING CONFIGURATION

40'HQ Container	Pallet/container	Piece/container
Pieces (154 pcs per pallet)	18	2772

Test&classifications

- CE passed (according to low voltage directive (LVD) (2014/35/EU)
- Sand/dust: IEC 60068-2-68: 1994 modified
- Salt mist: IEC 61701:2020 / EN IEC 61701:2020
- Potential Induced Degradation (PID): IEC TS 62804-1:2015 modified
- Ammonia (NH_3): IEC 62716: 2013 / EN 62716: 2013
- Design qualification
  - IEC 61215-1:2021 / EN IEC 61215-1:2021;
  - IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021;
  - IEC 61215-2:2021 / EN IEC 61215-2:2021;
- Construction requirements&safety
  - IEC 61730-1:2023;
  - IEC 61730-2:2023.
- Classification of external fire exposure
  - Class E (acc. DIN EN 13 501-1 : 2019)
  - Broof (t1) (for roofing-pitches < 20°) (acc. DIN EN 13 501-5: 2016 using test data from external fire exposure to roofs)