PEAKUP POWER

BALCONY SOLAR SYSTEM (PKQJH27J-200W)

Save, powerful, toxic free

Easy to apply

they are easy for handling and mounting on the railing with cable tie

More flexibility

as their reduced size, light weight make them suitable for balconies

More environmentally friendly

as they are 100% lead free and easier to recycle

More efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature

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 and U-IBC technology – while keeping the weight low.

- 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 TÜV NORD Type Tested 15 YEARS Product Warranty 25 YEARS Linear Performance Warranty

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

For Benelux & France

Proxables
Boerkensleen 5
4705RL Roosendaal
The Netherlands

info@proxables.com
Tel: +31 6 31 01 08 19
+32 495 049 604
www.proxables.com

Designed by

Jiangsu Peakup Power Technology Co.,Ltd.
www.peakuppower.com

Tel: +86 025 86108516
info@peakuppower.com

PEAKUP POWER

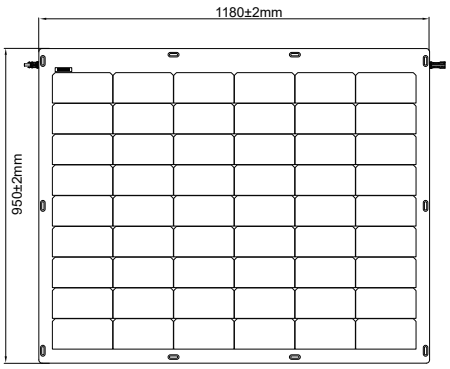
PKQJH27J 200W

22.4%	0~3%	⩽2%	0.55%	U-IBC HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION	Lower operating temperature

Solar panel

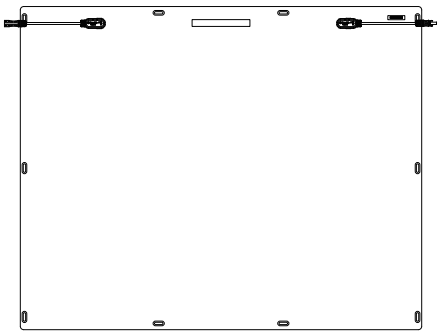
ELECTRICAL CHARACTERISTICS

Testing Condition	STC		NOCT	
Maximum Power(Pmax)	200W	205W	151W	155W
Maximum Power Voltage(Vmp)	16.56V	16.76V	15.59V	15.78V
Maximum Power Current(Imp)	12.09A	12.24A	9.68A	9.80A
Open-circuit Voltage(Voc)	19.71V	19.91V	18.75V	18.94V
Short-circuit Current(Isc)	13.03A	13.17A	10.66A	10.78A
Effective Module Efficiency(η)	21.81%	22.36%	21.81%	22.36%
Operating Temperature	-40 ℃ to 85 ℃			
Maximum System Voltage	DC 1500V			
Maximum Series Fuse Rating	25A			
Power Tolerance	0~+5W			
STC:Irradiance1000W/m², module temperature 25℃, AM=1.5				
NOCT:Irradiance 800W/m², Ambient Temperature 20℃, Air Mass 1.5, Wind speed 1m/s				



MECHANICAL CHARACTERISTICS

Solar Cell	Mono-crystalline U-IBC 182mm×91.9mm
No. of Cells	54 (6x9)
Effective Module Dimension(L×W)	1098.2mm×834.9mm
Installation Module Dimension	1180mm x 950mm x 2mm
Weight	2.8±0.2kg
Backsheet	Black PV backsheet
J-Box	IP68 rated
Output Cables	4mm²(IEC), 200mm or customized length
Connector	Original MC4



Micro-inverter

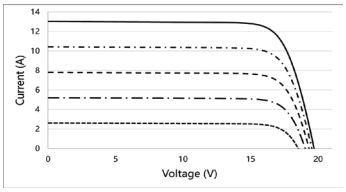
AP SYSTEMS EZ1-M

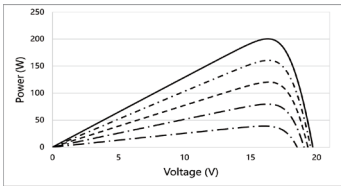
Input | DC	
Max Recommended PV Power (Wp)	450x2
Max DC Open Circuit Voltage (Vdc)	60
Max DC Input Current (Adc)	20×2
MPPT Tracking Accuracy	>99.5%
MPPT Tracking Range (Vdc)	28-45
Isc PV (absolute maximum) (Adc)	25x2
Maximum Inverter Backfeed Current to the Array (Adc)	0

Output | AC	
Maximum Continuous Output Power (VA)	799
Nominal Output Voltage (Vac)	230
Nominal Output Voltage Range (Vac)	184-253
Allowable Power Grid Frequency (Hz)	48-51
THD	<3% at rated power
Power Factor (cos phi,fixed)	>0.99 at rated power
Nominal Output Current (Aac)	3.5

Mechanical Data	
Operating Ambient Temperature Range	- 40 °C to + 65 °C
Dimensions (W x H x D, mm)	263mm x 218mm x 36.5mm
DC Connector Type	Stäubli MC4
Cooling	Natural Convection
Enclosure Environmental Rating	IP67

System Efficiency	
Peak Efficiency	97.50%
Night Time Rate Loss (Wp)	0.02





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
- 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.
- Ammonia (NH_3): IEC 62716: 2013 / EN 62716: 2013