

Solar Panel, Solar Modules, Solar Photovoltaic Modules, PV Modules

PVSK-430

PVSK-435

PVSK-440

PVSK-445

PVSK-450

PVSK-455

PVSK-460

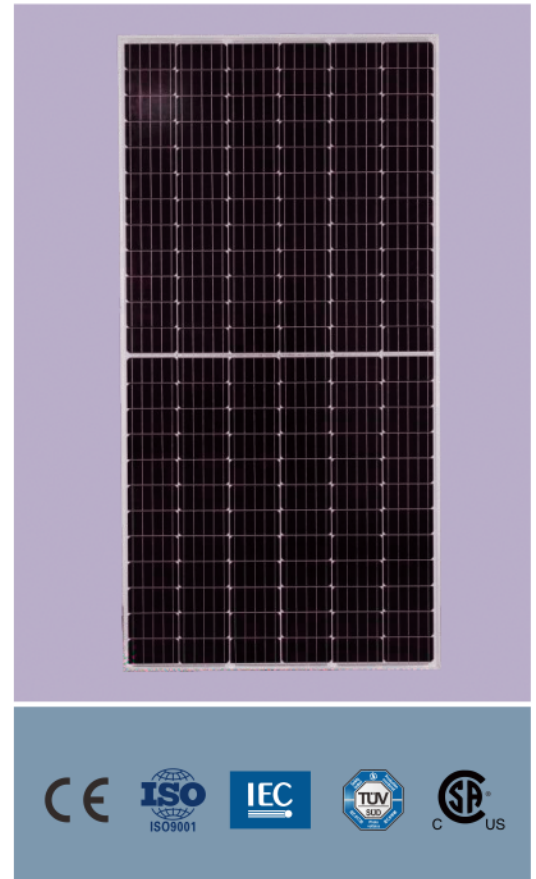
MONO HALF -CELL 9BB

Explain Model No	Model	Half-Cell	Solar Cell Type	Wattage	Silicon Type
	PVSK-450	144 PCS	166 × 166 mm	450W	M:Monocrystalline

Remark: PVSK-450 is most common model.

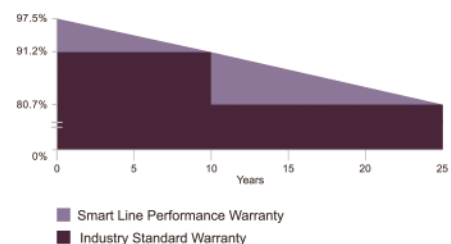
Features

- Tempered and high transparent low-iron glass**
 directs more light on the solar cells, resulting in a higher energy yield.
- Excellent low-light performance**
 produces energy even at low light levels, especially in the morning, evening and winter season.
- Special and advanced module sealing technology**
 to avoid leakage and frame deformation.
- Well-suited module size**
 for almost all PV applications.
- Durable PV modules**
 can be used for harsh environmental conditions, such as exposure to salt mist, and known potential induced degradation risk factors.



Warning: Read the Installation and User Manual in its entirety before handling, installing, and operation smart Solar modules.

Module Warranty



Note: This publication summarizes product warranty and Specifications which are subject to change without notice

25-year limited warranty of 80% power output;
 12-year limited warranty of 90% power output;
 10-year limited warranty of materials and workmanship.

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21.2%

MAX MODULE
EFFICIENCY

0~+5W

POWER
TOLERANCE

<2%

FIRST YEAR
POWER DEGRADATION

0.55%

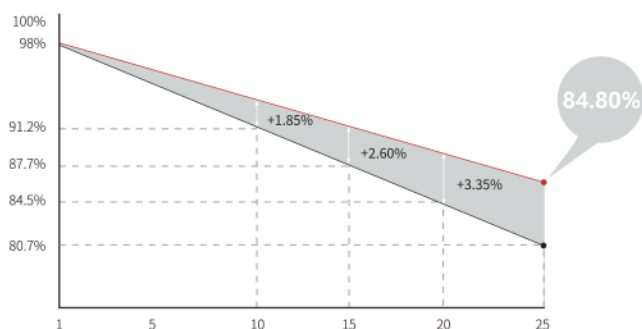
YEAR 2-25
POWER DEGRADATION

HALF-CELL

Lower operating temperature

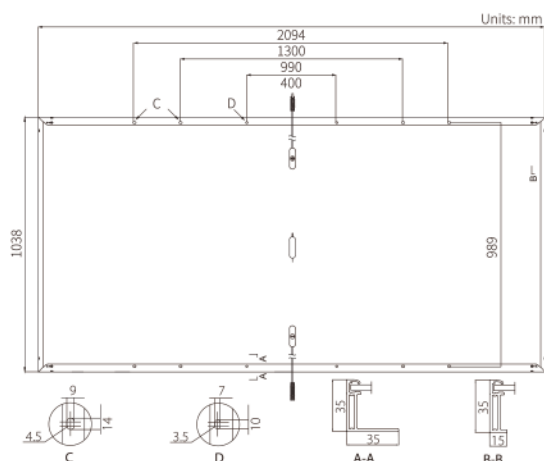
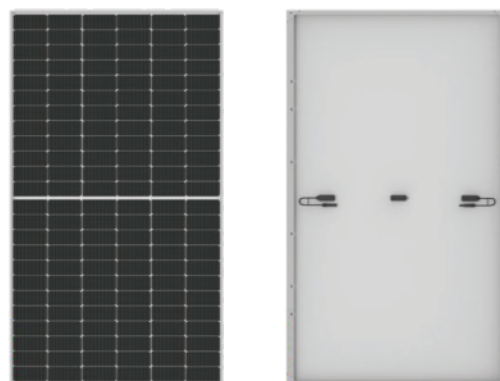
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , positive 400 / negative 200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	23.3kg
Dimension	2094×1038×35mm
Packaging	30pcs per pallet / 150pcs per 20' GP / 660pcs per 40' HC



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

Test uncertainty for Pmax: ±3%

Parameter Class	PVSK-430	PVSK-435	PVSK-440	PVSK-445	PVSK-450	PVSK-455	PVSK460
Maximum Power (Pmax/W)	430	435	440	445	450	455	460
Open Circuit Voltage (Voc/V)	48.5	48.7	48.9	49.1	49.3	49.5	49.7
Short Circuit Current (Isc/A)	11.31	11.39	11.46	11.53	11.60	11.66	11.73
Voltage at Maximum Power (Vmp/V)	40.7	40.9	41.1	41.3	41.5	41.7	41.9
Current at Maximum Power (Imp/A)	10.57	10.64	10.71	10.78	10.85	10.92	10.98
Module Efficiency(%)	19.8	20.0	20.2	20.5	20.7	20.9	21.2

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ +5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C



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