



SK-435P8-120M SK-430P8-120M SK-445P8-120M SK-450P8-120M SK-455P8-120M

MONO HALF -CELL 10BB

Representation	Product Name	Half-Cell	Solar Cell Type	Wattage	Silicon Type
EXAMPLE	SK-450P8-120M	120PCS	182 × 182 mm	450W	M:Monocrystalline

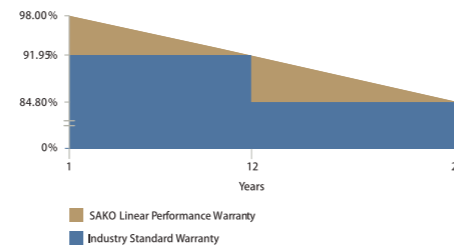


Features

- High module conversion efficiency**
Module efficiency up to 21.02%
- Half-cell Design**
Less energy loss caused by shading due to new cell string layout and lower cell connection power loss due to half-cell design.
- Excellent weak light performance**
More power output in weak light condition such as cloudy, morning and sunset
- Higher Durability against harsh environment**
Reliable quality leads to a better sustainability even in harsh environment
- Lower operating temperature**
Lower operating temperature and temperature coefficient increases the power output
- Anti- PID (Potential induced degradation)**
Excellent Anti-PID performance
- Lower LCOE**
2% more power generation, lower LCOE

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

25 Years Linear Warranty



25 Years output guarantee
12 Years quality assurance
5-year limited warranty of materials and workmanships.

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

ELECTRICAL PERFORMANCE

Electrical Parameters at Standard Test Conditions (STC)					
Module Type	SK-435P8-120M	SK-440P8-120M	SK-445P8-120M	SK-450P8-120M	SK-455P8-120M
Power Output (Pmax / W)	435W	440W	445W	450W	455W
Power Output Tolerances	±3%	±3%	±3%	±3%	±3%
Module Efficiency (ηm)	20.09%	20.33%	20.56%	20.79%	21.02%
Voltage at Pmax (Vmp / V)	34.09V	34.28V	34.48V	34.67V	34.87V
Current at Pmax (Imp / A)	12.77A	12.84A	12.91A	12.98A	13.05A
Open-circuit Voltage (Voc / V)	40.8V	40.95V	41.1V	41.25V	41.4V
Short-circuit Current (Isc / A)	13.67A	13.74A	13.82A	13.89A	13.97A

STC: 1000W/m² irradiance, 25°C module temperature, AM1.5g Spectrum according to EN 60904-3.

Electrical parameters at NMOT (Irradiance 800 W/m ² , ambient temperature 20 °C, AM=1.5, wind speed 1 m)					
Module Type	SK-435P8-120M	SK-440P8-120M	SK-445P8-120M	SK-450P8-120M	SK-455P8-120M
Power Output (Pmax / W)	324	328	332	336	339
Voltage at Pmax (Vmp / V)	32.1V	32.1V	32.2V	32.4V	32.6V
Current at Pmax (Imp / A)	10.01A	10.23A	10.3A	10.36A	10.42A
Open-circuit Voltage (Voc / V)	38.5V	38.6V	38.7V	38.9V	39.1V
Short-circuit Current (Isc / A)	10.97A	11.04A	11.11A	11.17A	11.24A

Thermal Characteristics			
Normal operating cell temperature	NMOT	°C	45±2
Temperature coefficient of Pmax	γ	%/°C	43
Temperature coefficient of Voc	βvoc	%/°C	-0.27
Temperature coefficient of Isc	αisc	%/°C	0.05
Temperature coefficient of Vmpp	βvmpp	%/°C	-0.42

Operating Conditions	
Max. system voltage	1500Vdc
Max. series fuse rating	20A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter)	25mm/23m/s

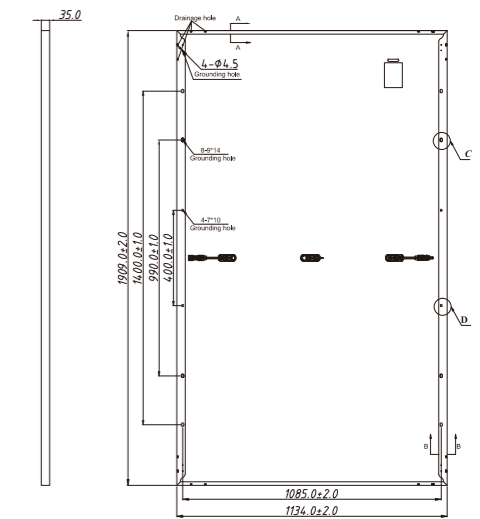
Construction Materials	
Front cover (material/thickness)	low-iron tempered glass/3.2mm
Cell (QTY)	132PCS Mono Perc (182MM)
Frame (Materials)	anodized aluminum alloy/silver/clear
Junction box (protection degree)	≥IP65
Cable (length/cross-sectional area)	300mm/4mm ²

General Characteristics	
Products Dimension (L/W/H)	1909*1134*35mm
Weight	24KGS
QTY of per pallet	31pcs per pallet
Packaging box dimensions	2295*1095*1145MM
No. of pallets for 40HQ containers	24 Pallets (744PCS, GW.: 785KGS)

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Unit: mm



I-V Curves

