



SK-530P8-144M SK-535P8-144M SK-540P8-144M

SK-545P8-144M SK-550P8-144M

MONO HALF -CELL 10BB

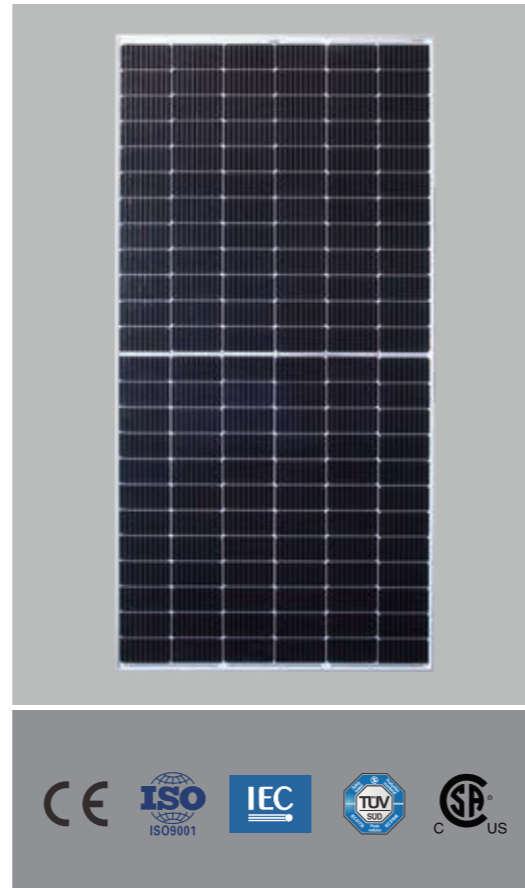
Representation	Product Name	Half-Cell	Solar Cell Type	Wattage	Silicon Type
EXAMPLE	SK-550P8-144M	144 PCS	182 × 182 mm	550W	M:Monocrystalline

Features

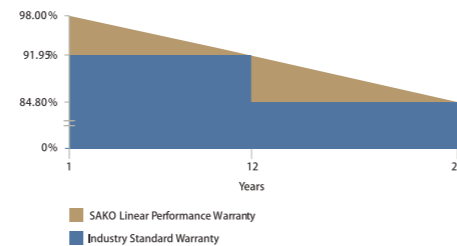
- **High module conversion efficiency**
Module efficiency up to 21.3%
- **Half-cell Design**
Less energy loss caused by shading due to new cell string layout and lower cell connection power loss due to half-cell design.
- **Excellent weak light performance**
More power output in weak light condition 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.

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



25 Years Linear Warranty



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

ELECTRICAL PERFORMANCE

Electrical Parameters at Standard Test Conditions(STC)					
Module Type	SK-530P8-144M	SK-535P8-144M	SKSK-540P8-144M	SK-545P8-144M	SK-550P8-144M
Power Output (Pmax / W)	530W	535W	540W	545W	550W
Power Output Tolerances	±3%	±3%	±3%	±3%	±3%
Module Efficiency (ηm)	20.50%	20.70%	20.89%	21.09%	21.30%
Voltage at Pmax (Vmp / V)	40.8V	41V	41.19V	41.38V	41.57V
Current at Pmax (Imp / A)	12.99A	13.05A	13.11A	13.17A	13.23A
Open-circuit Voltage (Voc / V)	48.81V	49.02V	49.21V	49.43V	49.62V
Short-circuit Current (Isc / A)	13.83A	13.88A	13.93A	13.98A	14.03A

STC:1000W/m² irradiance, 25°C module temperature, AM1.5g Spectrum according to EN 60904-3.
Average relative efficiency reduction of 3.3% at 200W/m² according to EN 60904-1.

Electrical parameters at NMOT (Irradiance 800 W/m ² , ambient temperature 20 °C, AM=1.5, wind speed 1 m)					
Module Type	SSK-530P8-144M	SK-535P8-144M	SK-540P8-144M	SK-545P8-144M	SK-550P8-144M
Power Output (Pmax / W)	394W	398W	402W	405W	409W
Voltage at Pmax (Vmp / V)	38.5V	38.6V	38.8V	38.9V	39.0V
Current at Pmax (Imp / A)	10.23A	10.3A	10.36A	10.42A	10.48A
Open-circuit Voltage (Voc / V)	46.1V	46.2V	46.4V	46.5V	46.7V
Short-circuit Current (Isc / A)	11.06A	11.12A	11.17A	11.23A	11.29A

Thermal Characteristics			
Normal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	γ	%/°C	-0.35
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)	144PCS 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)	2279*1134*35mm
Weight	28.5KGS
QTY of per pallet	31pcs per pallet
Packaging box dimensions	2295*1095*1145MM
No. of pallets for 40HQ containers	20 Pallets (620PCS, GW: 940KGS)

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

