

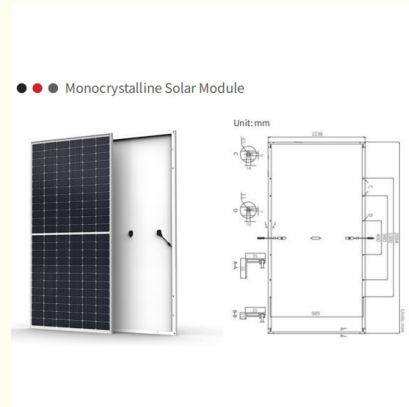


530W Durable Monocrystalline Silicon Panels for Residential and Commercial Rooftop Systems

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: TP
- Certification: CE
- Model Number: PV530
- Minimum Order Quantity: 300 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Module Efficiency: Up To 21.3%
- Power Output (Pmax): 530W–550W
- Voltage At Pmax (Vmp): 40.8V–41.57V
- Short-circuit Current (Isc): 13.83A–14.03A
- Maximum System Voltage: 1500V DC
- Temperature Coefficient Of Pmax: -0.35%/°C
- Highlight: 530w monocrystalline silicon panels,
530w monocrystalline silicon solar panels,
residential monocrystalline silicon panels

Product Description

530W Durable Monocrystalline Silicon Panels for Residential and Commercial Rooftop Systems

SK-530P8-144M SK-535P8-144M SK-540P8-144M SK-545P8-144M SK-550P8-144M

MONO HALF -CELL 9BB/10BB

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



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 conditions 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

Product Description

This series of monocrystalline silicon solar panels offers high efficiency, durable performance, and enhanced resistance to harsh environmental conditions. With half-cell technology, these panels significantly reduce energy losses caused by shading and improve overall performance in weak light environments such as cloudy days or early mornings. The advanced construction materials and innovative design ensure excellent mechanical strength, allowing the panel to withstand wind loads up to 2400 Pa and snow loads up to 5400 Pa. Additionally, these panels incorporate Anti-PID technology, ensuring long-term reliability and lower degradation rates, making them a reliable option for residential and commercial solar projects.

ELECTRICAL PERFORMANCE					
Electrical Parameters at Standard Test Conditions (STC)					
Module Type	SK-530P8-144M	SK-535P8-144M	SK-540P8-144M	SK-545P8-144M	SK-550P8-144M
Power Output (P _{max} /W)	530W	535W	540W	545W	550W
Power Output Tolerances	±3%	±3%	±3%	±3%	±3%
Module Efficiency (m ²)	20.50%	20.70%	20.89%	21.09%	21.30%
Voltage at P _{max} (V _{mp} /V)	40.8V	41V	41.19V	41.38V	41.57V
Current at P _{max} (I _{mp} /A)	12.99A	13.05A	13.11A	13.17A	13.23A
Open-circuit Voltage (V _{oc} /V)	48.81V	49.02V	49.21V	49.43V	49.62V
Short-circuit Current (I _{sc} /A)	13.83A	13.88A	13.93A	13.98A	14.03A
STC: 1000W/m ² irradiance, 25°C module temperature, AM1.5g Spectrum according to EN60904-3.					
Electrical parameters at NMOT (Irradiance 800W/m ² , ambient temperature 20°C, AM=1.5, wind speed 1m)					
Module Type	SSK-530P8-144M	SK-535P8-144M	SK-540P8-144M	SK-545P8-144M	SK-550P8-144M

PowerOutput(Pmax/W)	394W	398W	402W	405W	409W
Voltage atPmax(Vmp/M)	38.5V	38.6V	38.8V	38.9V	39.0V
Current atPmax(mp/A)	10.23A	10.3A	10.36A	10.42A	10.48A
Open-circuitVoltage(Voc/V)	46.1V	46.2V	46.4V	46.5V	46.7V
Short-circuitCurrent(Isc/A)	11.06A	11.12A	11.17A	11.23A	11.29A

ThermalCharacteristics			
Nomaloperatingcelltemperature	NOCT	°C	45±2
TemperaturecoeffidencyofPmax	γ	%/°C	-0.35
TemperaturecoeffidencyofVoc	βvoc	9%/°C	-0.27
TemperaturecoeffidencyofIsc	αisc	%/C	0.05
TemperaturecoeffidencyofVmpp	βvmpp	9%/C	-0.42

Construction Materials	
Frontcovermaterial/thickness	low-iron tempered glass/3.2mm
Cellquantity/material)	144PCSMonoPerc(182MM)
Frame(Materials	anodized aluminumalloy/silvericlear
Junction box(protectiondegree)	≥IP65
Cable length/cross-Sectional area	300mm/4mm ²

OperatingConditions	
Max.systemvoltage	1500Vdc
Max.serdestuseating	20A
Operatingtemperaturerange	40°Cto 85°C
Max.staticload,front(e.g.snow)	5400Pa
Max.staticload,back(e.g.wind	2400Pa
Max.hailstoneimpact(diameter	25mm/23mm/s

General Characteristics	
Products Dimension(L/W/H)	2279*1134*35mm
Weight	28.5KGS
QTYofper pallet	31pes per pallet
Packaging boxdimensions	2330*1150*1270MM
No.of palletsfor 40HQ containers	20 Pallets(620PCS,GW:940KG5)
Note:Thispublication summarizesproductwarrantyandspecications whichare subjecttochangewithoutnotice.	

Application

These monocrystalline silicon panels are ideal for large-scale solar installations, rooftop systems for both residential and commercial buildings, and solar farms. Their high durability and efficiency make them suitable for areas with variable weather conditions, including high wind and heavy snow. The panels' ability to perform well under weak light conditions ensures maximum power output even in less sunny environments, making them perfect for regions with less direct sunlight.

Shipping Methods

Supports global air and sea shipping.



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