

ULTRA

N TYPE

- Fire Class A
- High Energy Performance
- Strengthened Mechanical Load (5400Pa)
- Anti PID
- 100% Inspection 25years Guarantee
- SMBB Technology Half Cut N Type Cell

SKT435~455M12-96D3

435~455 Watt

210x182mm 16BB 96Cells All Black
N Type Mono Half Cell PV Module Series

Sunket N Type Linear Warranty

25 Year
89.4% Output
Power guarantee

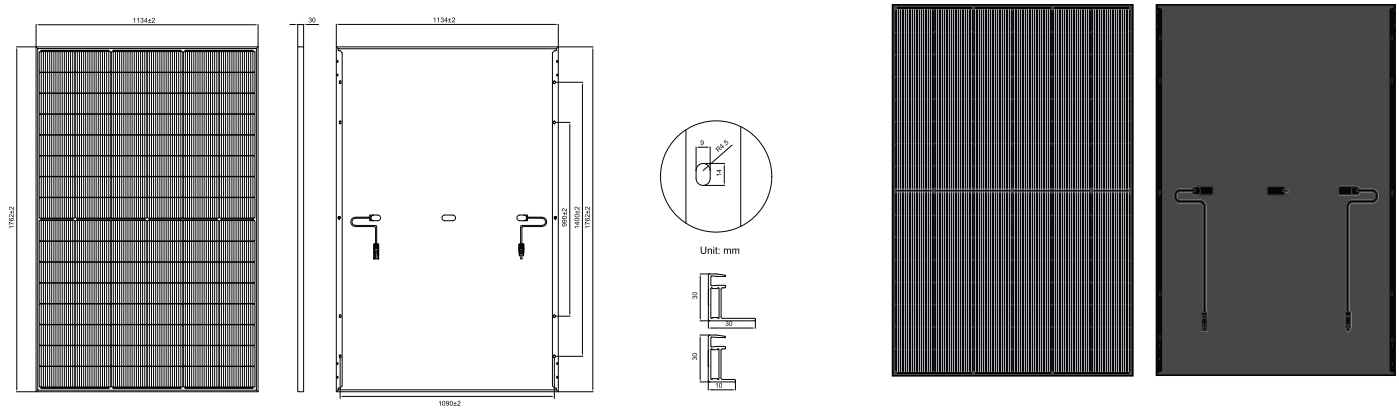
12 Year
Materials and
workmanship

SUNKET® - Solar

SKT435~455M12-96D3

210x182mm 16BB 96Cells All Black
N Type Mono Half Cell PV Module Series

SUNKET® - Solar



All Dimensions in mm
The above drawing is a graphical representation of the product.

Electrical Characteristics (STC/NMOT)

Module Type	SKT435M12-96D3		SKT440M12-96D3		SKT445M12-96D3		SKT450M12-96D3		SKT455M12-96D3	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power- Pmax(W)	435	328.5	440	332.3	445	336.1	450	339.8	455	343.5
Open Circuit Voltage - Voc(V)	35.13	33.35	35.30	33.54	35.47	33.73	35.64	33.92	35.80	34.11
Short- Circuit Current - Isc(A)	15.79	12.76	15.88	12.81	15.97	12.86	16.06	12.91	16.14	12.96
Voltage at Pmax -Vmp(V)	29.23	27.35	29.36	27.51	29.49	27.67	29.63	27.83	29.76	27.99
Current at Pmax - Imp(A)	14.88	12.01	14.99	12.08	15.09	12.15	15.19	12.21	15.29	12.27
Module Efficiency -ηm(%)	21.77	/	22.02	/	22.27	/	22.52	/	22.77	/
Power Tolerance(W)	（0，+5W）									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	25A									

*STC ： Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5
*NMOT ： Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s
*Measurement tolerance: ±3%　*Power binning up to: +3%

Mechanical Specifications

External Dimensions	1762×1134×30mm
Weight	21kg
Solar Cells	N-Type 16BB 182×105mm (2×48pcs)
Front Glass	AR Coated 3.2mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm², 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

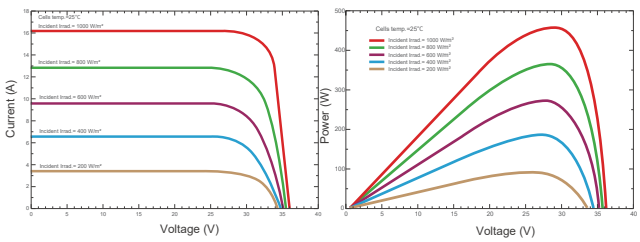
Packing Configuration

Pallet Dimensions	1790×1140×1254mm		
Ways of Transport	40'HQ	13.5m Flatbed Truck	17.5m Flatbed Truck
Pieces per Pallet	37 Pcs	36 Pcs	36 Pcs
Pallets per Container	26 Pallets	24 Pallets	36 Pallets
Pieces per Container	962 Pcs	864 Pcs	1296 Pcs

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature Range	-40~+85°C
Nominal Operating Cell Temperature(NMOT)	45±2°C

Current-Voltage & Power-Voltage Curves (SKT455M12-96D3)



 ©Copyright 2025 Sunket