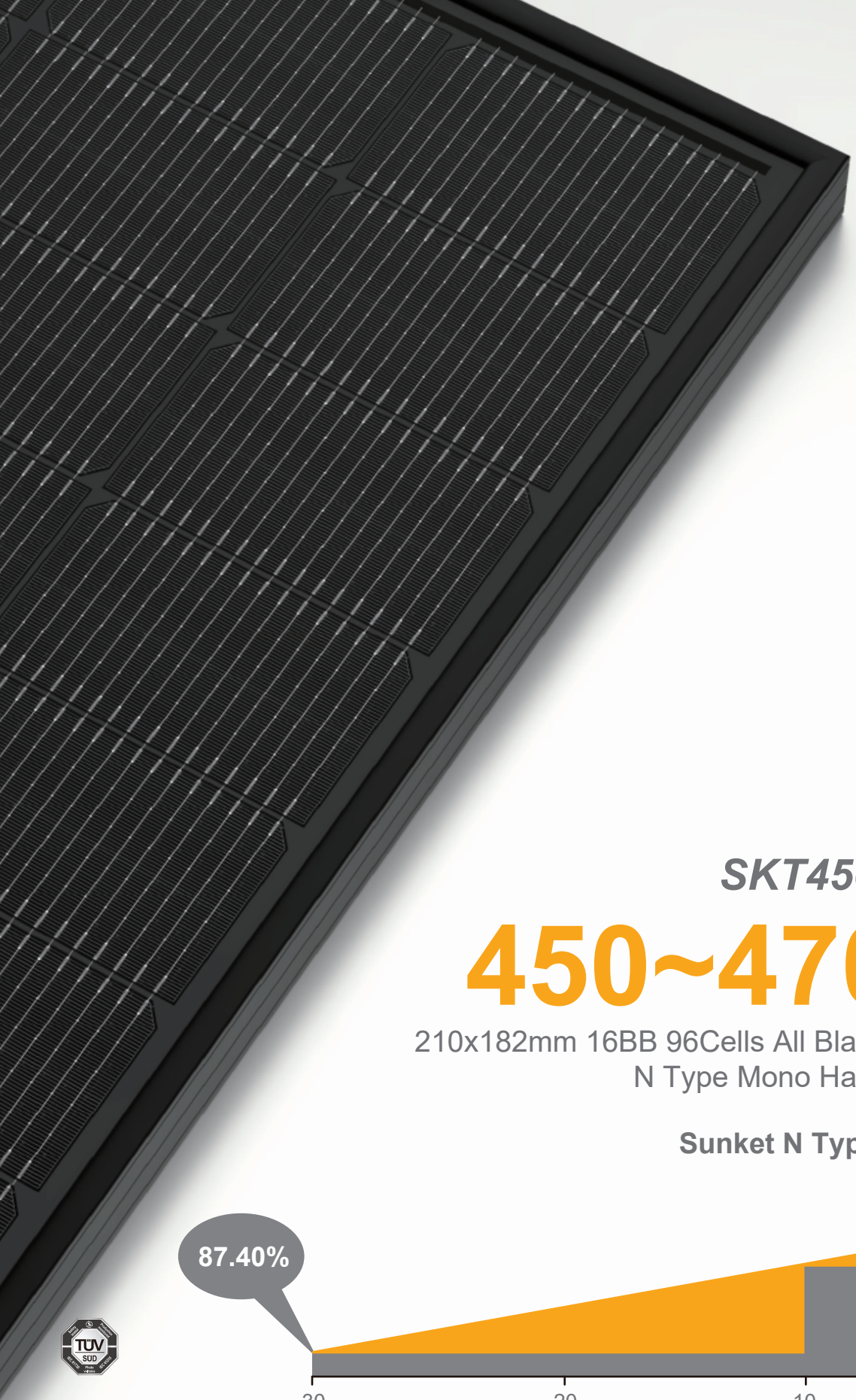


ULTRA
N TYPE

- Fire Class A
- High Energy Performance
- Strengthened Mechanical Load (5400Pa)
- Advanced Bifacial Efficiency
- 100% Inspection 30years Guarantee (100% TEST MES)
- SMBB Technology Half Cut N Type Cell

SKT450~470M12-96D3

450~470 Watt

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

Sunket N Type Linear Warranty

30 Year
87.4% Output
Power guarantee

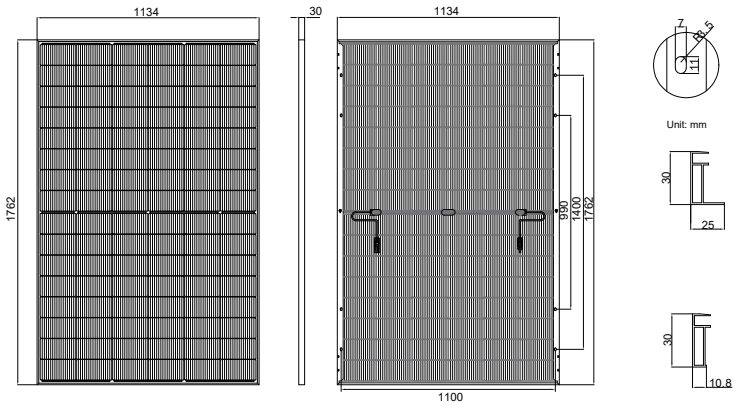
15 Year
Materials and
workmanship

SUNKET - Solar

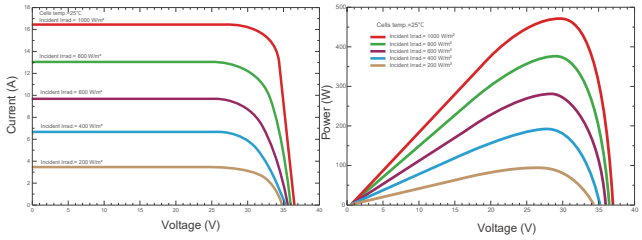
SKT450~470M12-96D3

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

SUNKET - Solar



Current-Voltage & Power-Voltage Curves (SKT470M12-96D3)



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

Electrical Characteristics (STC/NMOT)

Module Type	SKT450M12-96D3		SKT455M12-96D3		SKT460M12-96D3		SKT465M12-96D3		SKT470M12-96D3	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power- Pmax(W)	450	339.8	455	343.5	460	347.4	465	351.2	470	355.0
Open Circuit Voltage - Voc(V)	35.64	33.92	35.80	34.11	35.97	34.30	36.14	34.49	36.31	34.68
Short- Circuit Current - Isc(A)	16.06	12.91	16.14	12.96	16.23	13.01	16.32	13.06	16.40	13.11
Voltage at Pmax -Vmp(V)	29.63	27.83	29.76	27.99	29.89	28.15	30.03	28.31	30.16	28.47
Current at Pmax - Imp(A)	15.19	12.21	15.29	12.27	15.39	12.34	15.49	12.40	15.58	12.47
Module Efficiency -ηm(%)	22.52	/	22.77	/	23.02	/	23.27	/	23.52	/
Power Tolerance(W)	（0，+5W）									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	30A									

*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	21.5kg
Solar Cells	N-Type 16BB 182×105mm (2×48pcs)
Glass	AR Coated 1.6+1.6 mm 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

Bifacial Output Rear Side Power Gain

*Take SKT470M12-96D3 as an example.

Power Gain	5%	10%	20%
Maximum Power- Pmax(W)	493.5	517.0	564.0
Open Circuit Voltage - Voc(V)	36.31	36.31	36.31
Short- Circuit Current - Isc(A)	17.22	18.04	19.68
Voltage at Pmax -Vmp(V)	30.16	30.16	30.16
Current at Pmax - Imp(A)	16.36	17.14	18.70

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

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

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