

ULTRA

**N TYPE**

Fire Class A



High Energy  
Performance



Strengthened  
Mechanical Load



Anti PID



100% Inspection  
25years Guarantee



SMBB Technology  
Half Cut N Type Cell

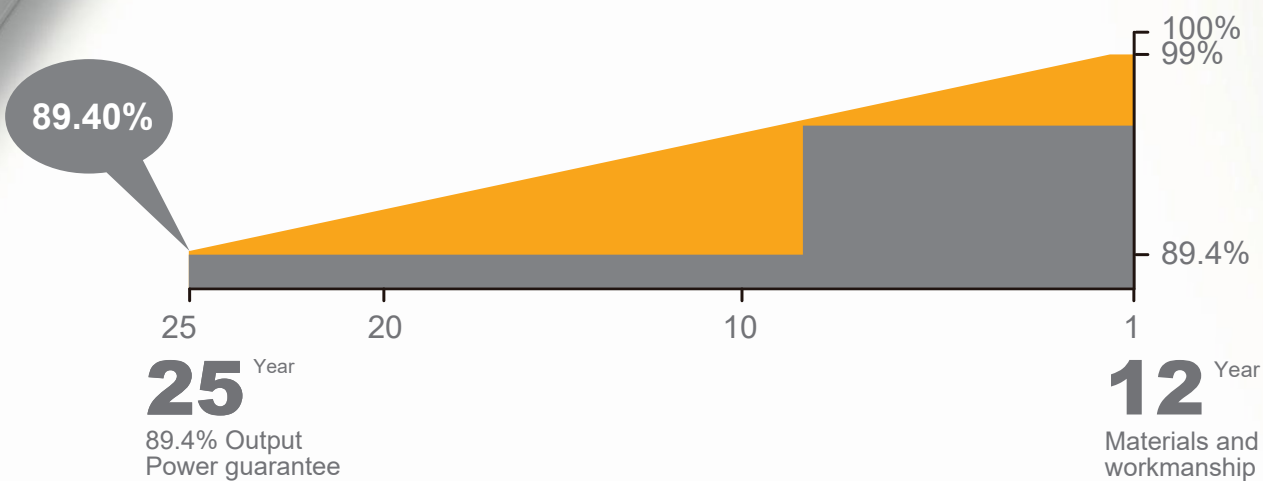


**SKT450~470M12-96D5**

**450~470 Watt**

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

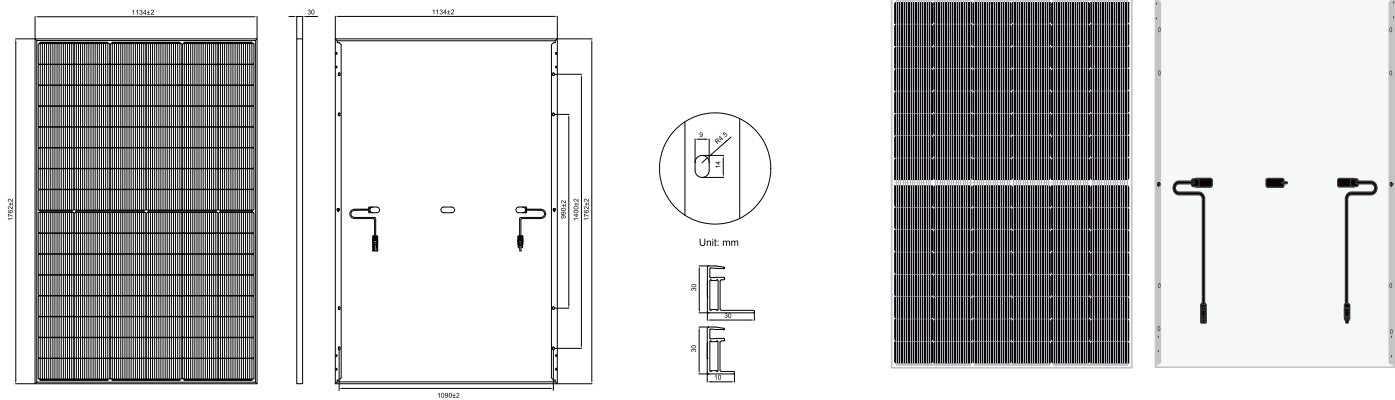
**Sunket N Type Linear Warranty**



**SUNKET® - Solar**

SKT450~470M12-96D5

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



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

Electrical Characteristics (STC/NMOT)

| Module Type                     | SKT450M12-96D5 |       | SKT455M12-96D5 |       | SKT460M12-96D5 |       | SKT465M12-96D5 |       | SKT470M12-96D5 |       |
|---------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| 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) 25A

\*STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5  
\*NMOT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, 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           |

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            |

Current-Voltage & Power-Voltage Curves (SKT470M12-96D5)

