

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

## *SKT435~455M12-96D4*

# 435~455 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

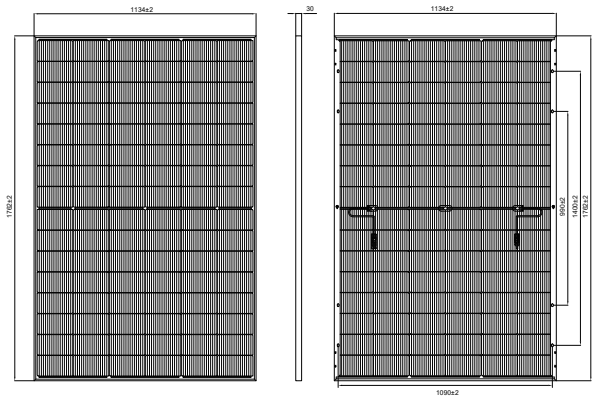
**15** Year
Materials and
workmanship

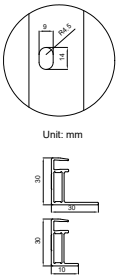
SUNKET® - Solar

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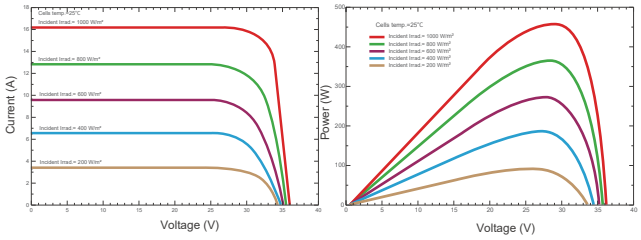
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Current-Voltage & Power-Voltage Curves (SKT455M12-96D4)




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

## Electrical Characteristics (STC/NMOT)

| Module Type | SKT435M12-96D4 | | SKT440M12-96D4 | | SKT445M12-96D4 | | SKT450M12-96D4 | | SKT455M12-96D4 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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) | 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 SKT455M12-96D4 as an example.

| Power Gain | 5% | 10% | 20% |
|---|---|---|---|
| Maximum Power- Pmax(W) | 478.0 | 501.0 | 546.0 |
| Open Circuit Voltage - Voc(V) | 35.80 | 35.80 | 35.80 |
| Short- Circuit Current - Isc(A) | 16.79 | 17.59 | 19.17 |
| Voltage at Pmax -Vmp(V) | 29.76 | 29.76 | 29.76 |
| Current at Pmax - Imp(A) | 16.05 | 16.82 | 18.35 |

## 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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