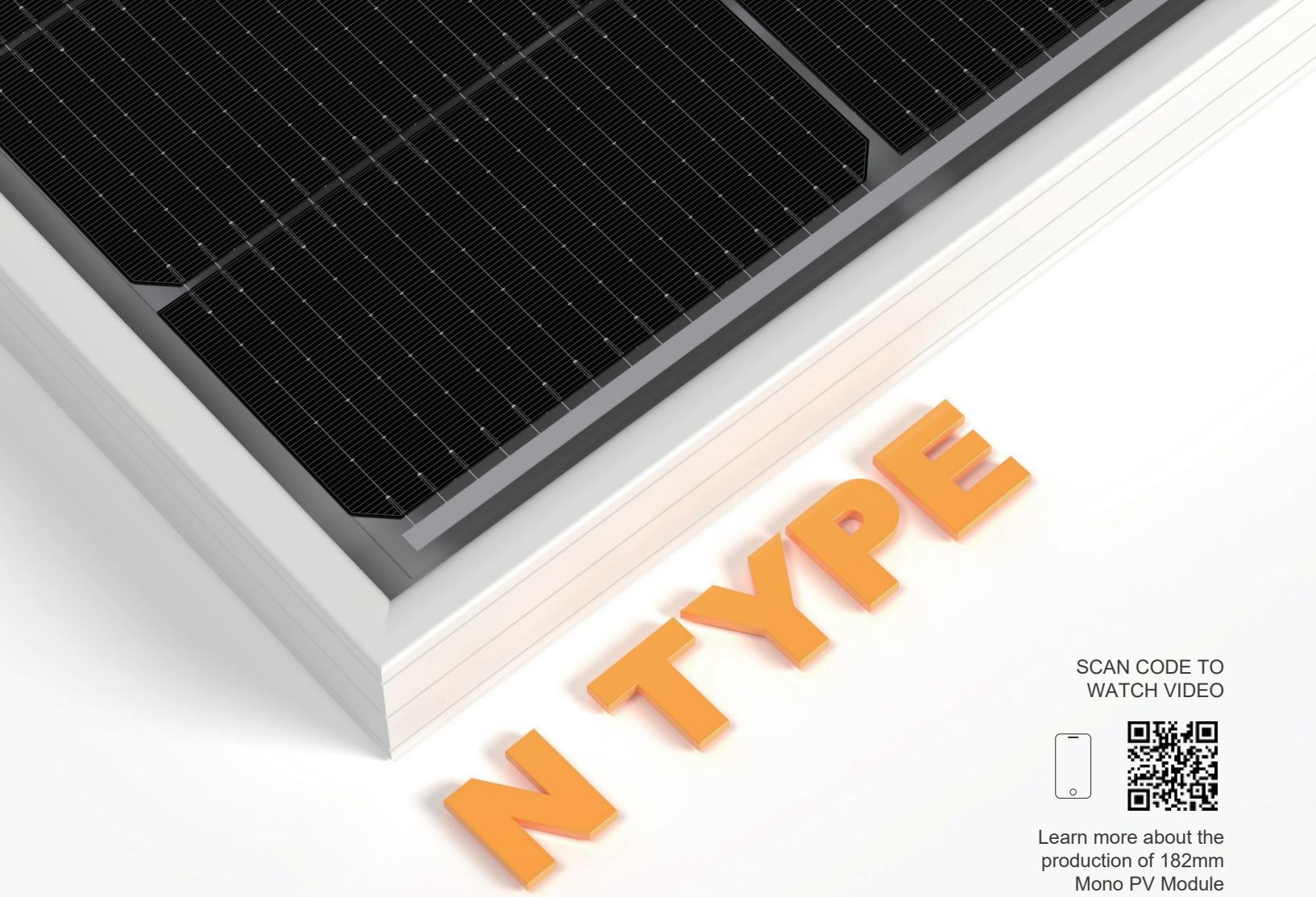



SCAN CODE TO
WATCH VIDEO

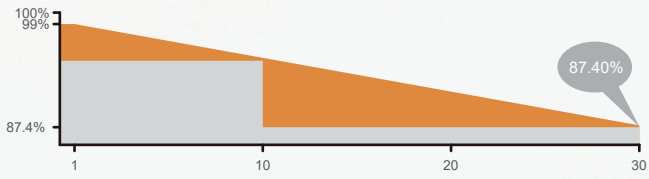
Learn more about the
production of 182mm
Mono PV Module

## *SKT580~590M10-144D4*

# 580~590 Watt

182mm 16BB 144Cells Double Glass Bifacial
N Type Mono Half Cell PV Module Series

Sunket N Type Linear Warranty




**15** Years
Materials and
workmanship

**30** Years
87.4% Output
Power guarantee

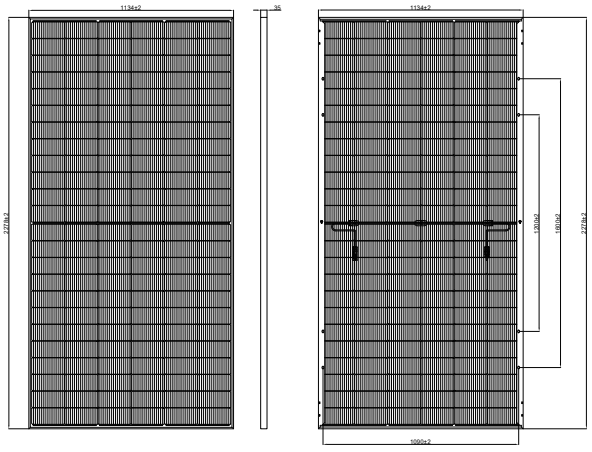
- SMBB Technology
  Half Cut N Type Cell
- High Energy
  Performance
- 100% Inspection
  30years Guarantee
- Fire Class A
- 5400Pa
  Strengthened
  Mechanical Load
- Advanced Bifacial
  Efficiency

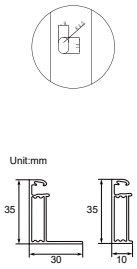
SUNKET - Solar

# SUNKET - Solar

## SKT580~590M10-144D4

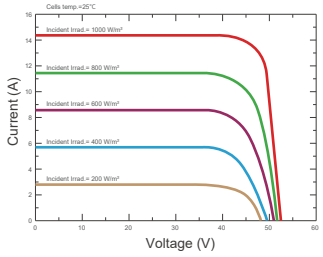
182mm 16BB 144Cells Double Glass Bifacial
N Type Mono Half Cell PV Module

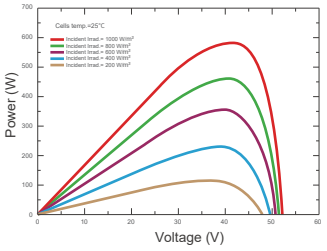



All Dimensions in mm
The above drawing is a graphical representation of the product.

Current-Voltage & Power-Voltage Curves (SKT590M10-144D4)




## Electrical Characteristics (STC/NOCT)

| Module Type | SKT580M10-144D4 | | SKT585M10-144D4 | | SKT590M10-144D4 | |
|---|---|---|---|---|---|---|
| Test Conditions | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power- Pmax(W) | 580 | 436 | 585 | 440 | 590 | 444 |
| Open Circuit Voltage - Voc(V) | 51.47 | 48.89 | 51.67 | 49.08 | 51.87 | 49.27 |
| Short- Circuit Current - Isc(A) | 14.37 | 11.21 | 14.43 | 11.26 | 14.49 | 11.31 |
| Voltage at Pmax -Vmp(V) | 42.60 | 39.86 | 42.76 | 39.97 | 42.92 | 40.08 |
| Current at Pmax - Imp(A) | 13.62 | 10.94 | 13.69 | 11.01 | 13.75 | 11.08 |
| Module Efficiency -ηm(%) | 22.45 | / | 22.64 | / | 22.84 | / |
| Power Tolerance(W) | (0，+4.99W) | | | | | |
| Maximum System Voltage(V) | 1500Vdc (IEC / UL) | | | | | |
| Maximum Series Fuse Rating (A) | 30A | | | | | |

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

## Mechanical Specifications

| | |
|---|---|
| External Dimensions | 2278×1134×35mm |
| Weight | 32kg |
| Solar Cells | N-Type 16BB 182mm (2×72pcs) |
| Glass | AR Coated 2+2 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 SKT585M10-144D4 as an example.

| Power Gain | 5% | 15% | 25% |
|---|---|---|---|
| Maximum Power- Pmax(W) | 614 | 673 | 731 |
| Open Circuit Voltage - Voc(V) | 51.67 | 51.67 | 51.67 |
| Short- Circuit Current - Isc(A) | 14.81 | 16.23 | 17.63 |
| Voltage at Pmax -Vmp(V) | 42.76 | 42.76 | 42.76 |
| Current at Pmax - Imp(A) | 14.36 | 15.74 | 17.10 |

## 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(NOCT) | 45±2°C |

## Packing Configuration

| Pallet Dimensions | 2320×1125×1254mm | | |
|---|---|---|---|
| Ways of Transport | 40'HQ | 13.5m Flatbed Truck | 17.5m Flatbed Truck |
| Pieces per Pallet | 31 Pcs | 31 Pcs | 31 Pcs |
| Pallets per Container | 20 Pallets | 19 Pallets | 28 Pallets |
| Pieces per Container | 620 Pcs | 589 Pcs | 868 Pcs |

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