

ULTRA
N TYPE

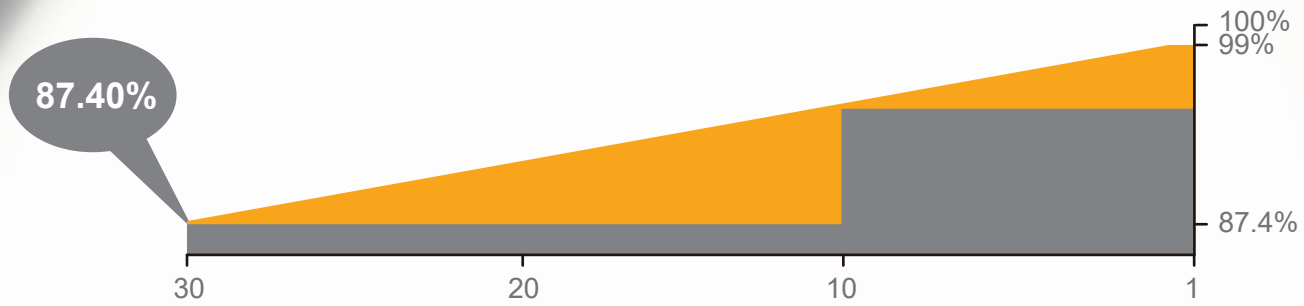
- Fire Class A
- High Energy Performance
- Strengthened Mechanical Load (5400Pa)
- Advanced Bifacial Efficiency
- 100% Inspection 30years Guarantee (100% TEST MES)
- SMBB Technology Half Cut N Type Cell

SKT590~615M10-144D5

590~615 Watt

192x182mm 16BB 144Cells Double Glass Bifacial
N Type Mono Half Cell PV Module Series

Sunket N Type Linear Warranty



30 Year
87.4% Output
Power guarantee

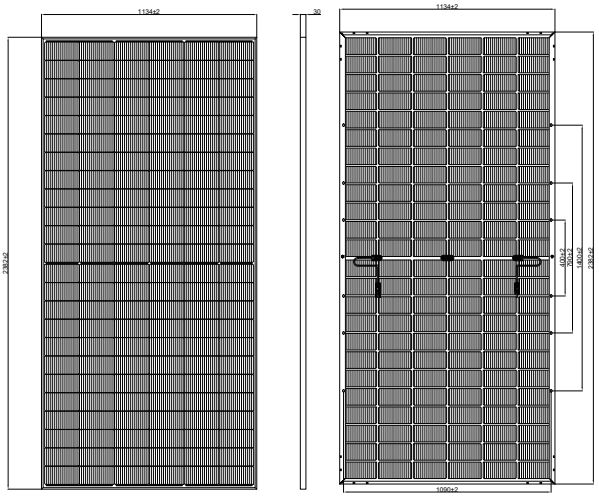
15 Year
Materials and
workmanship

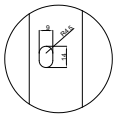
SUNKET® - Solar

SKT590~615M10-144D5

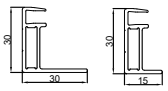
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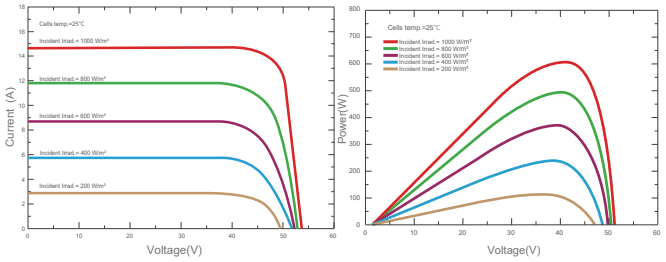




Units:mm



Current-Voltage & Power-Voltage Curves (SKT615M10-144D5)



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

Electrical Characteristics (STC/NMOT)

Module Type	SKT590M10-144D5		SKT595M10-144D5		SKT600M10-144D5		SKT605M10-144D5		SKT610M10-144D5		SKT615M10-144D5	
Front Side	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power- Pmax(W)	590	447.4	595	451.3	600	545.9	605	458.5	610	462.1	615	465.6
Open Circuit Voltage - Voc(V)	51.67	48.05	51.86	48.23	52.05	48.41	52.24	48.58	52.43	48.76	52.62	48.94
Short- Circuit Current - Isc(A)	14.55	11.93	14.61	11.98	14.66	12.02	14.71	12.06	14.77	12.11	14.82	12.15
Voltage at Pmax -Vmp(V)	42.94	39.85	43.10	39.99	43.25	40.13	43.40	40.28	43.56	40.42	43.72	40.57
Current at Pmax - Imp(A)	13.76	11.23	13.83	11.28	13.89	11.33	13.95	11.38	14.01	11.43	14.07	11.48
Module Efficiency -ηm(%)	21.84	/	22.03	/	22.21	/	22.40	/	22.58	/	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℃, Air Mass1.5, Wind Speed 1m/s

Mechanical Specifications

External Dimensions	2382x1134x30mm
Weight	32.4kg
Solar Cells	N-Type 16BB 182x96mm (2x72pcs)
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

Power Gain	5%	10%	20%
Maximum Power- Pmax(W)	646.0	677.0	738.0
Open Circuit Voltage - Voc(V)	52.62	52.62	52.62
Short- Circuit Current - Isc(A)	15.56	16.30	17.78
Voltage at Pmax -Vmp(V)	43.72	43.72	43.72
Current at Pmax - Imp(A)	14.77	15.47	16.88

Temperature Characteristics

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

Packing Configuration

Pallet Dimensions	1164x1140x2495mm
Container	40'HQ
Pieces per Pallet	37
Pallets per Container	20
Pieces per Container	740

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