

ULTRA

N TYPE

N-type multi-cut cell technology
Reduces internal current loss of the module and improves power output

Efficient bifacial power generation
PV Module bifaciality rate: 85%±5

Excellent low-light performance
Higher power generation gain in low-light conditions

Optimized temperature coefficient
Temperature coefficient of -0.26%/℃, ensuring power generation in high-temperature environments

-0.35% linear degradation rate
Enables longer service life

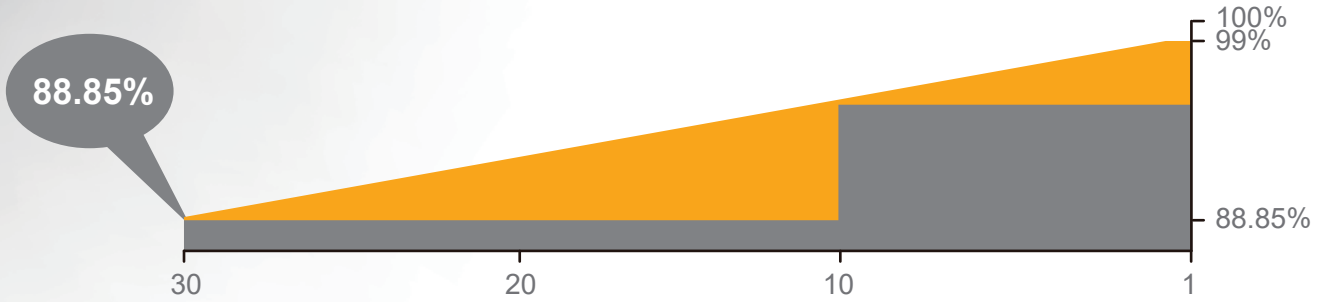
Lower levelized cost of electricity
Reduces the overall balance of system cost

SKT590~610M12-240D4

590~610 Watt

213x182.3mm 16BB 240Cells Double Glass Bifacial
N Type Mono Quad-Cell PV Module Series

Sunket N Type Linear Warranty



30 Year
88.85% Output
Power guarantee

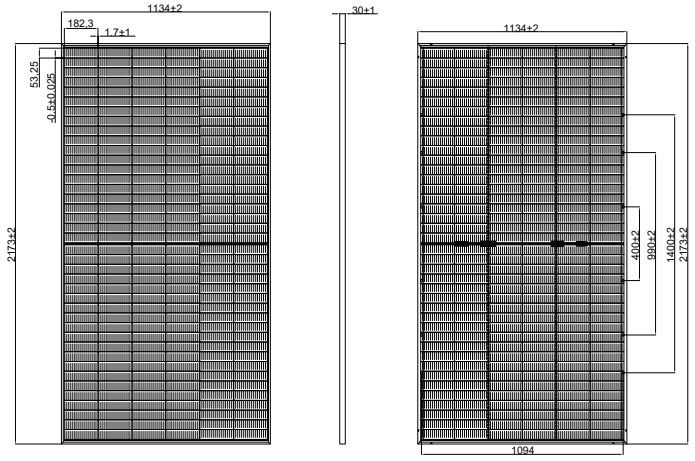
12 Year
Materials and
workmanship

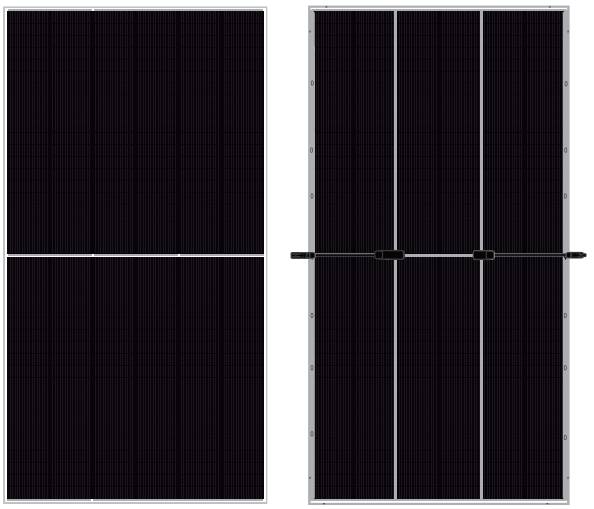
SUNKET - Solar

SKT590~610M12-240D4

213x182.3mm 16BB 240Cells Double Glass Bifacial
N Type Mono Quad-Cell PV Module Series

SUNKET - Solar





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

Electrical Characteristics (STC/NMOT)

Module Type	SKT590M12-240D4		SKT595M12-240D4		SKT600M12-240D4		SKT605M12-240D4		SKT610M12-240D4	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power- Pmax(W)	590	445.5	595	449.3	600	453.1	605	456.9	610	460.6
Open Circuit Voltage - Voc(V)	44.88	42.61	45.06	42.77	45.24	42.93	45.42	43.09	45.60	43.25
Short- Circuit Current - Isc(A)	16.23	13.54	16.30	13.60	16.37	13.67	16.44	13.73	16.51	13.79
Voltage at Pmax -Vmp(V)	38.52	36.03	38.65	36.16	38.78	36.28	38.91	36.40	39.04	36.52
Current at Pmax - Imp(A)	15.32	12.36	15.40	12.43	15.47	12.49	15.55	12.55	15.63	12.61
Module Efficiency -ηm(%)	23.94	/	24.15	/	24.35	/	24.55	/	24.75	/
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	2173x1134x30mm
Weight	29.5kg
Solar Cells	N-Type 16BB 182.3x53.25mm (6x40pcs)
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

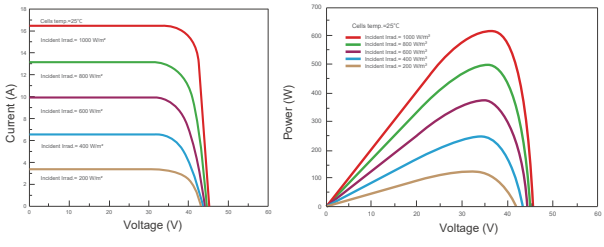
Packing Configuration

Pallet Dimensions	2200×1140×1251mm		
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	20 Pallets	24 Pallets	26 Pallets
Pieces per Container	740 Pcs	864 Pcs	936 Pcs

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

Current-Voltage & Power-Voltage Curves (SKT610M12-240D4)



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