



SUNNIVA

500W

1960x1134x30mm

Cells 108

Monocrystalline

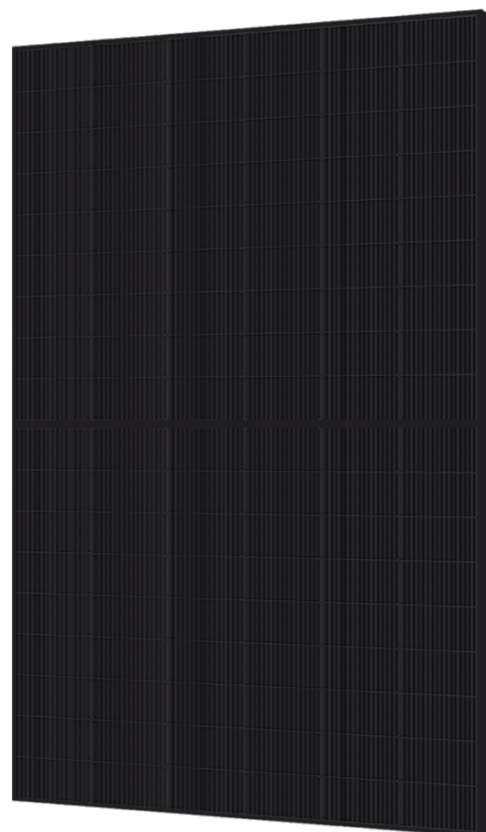
NT7 N-Type Rectangle TOPCon

Max Power Output: 500W

Bifaical Power Max: 650W

Max Efficiency: 24.22%

Power Tolerance: 0~+4



Bifacial Ultra Black



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



N-type solar cell has no LID naturally which can increase power generation



Stronger surface resistance to mechanical loads with 8000PA front side and 5400PA back side



Better light trapping and current collection to improve module power output and reliability



Industry leading lowest thermal co-efficient of power

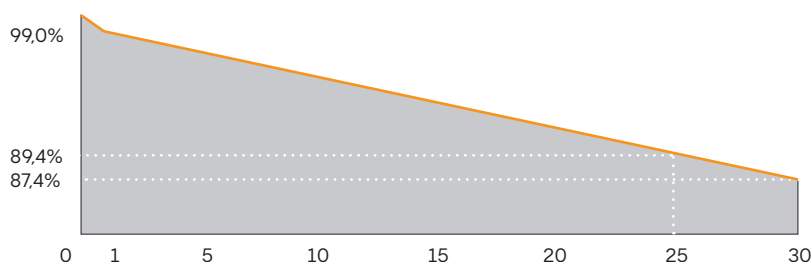


Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient

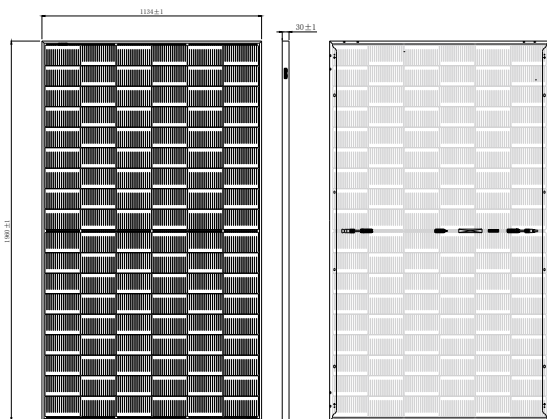


Passed kiwa hail test with a diameter of 45mm a speed of 30.7m per second

LINEAR PERFORMANCE WARRANTY



MODULE DIMENSIONS (MM)



STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1960x1134x30mm
Weight	26.6kg
Cell	108 cells, N type Monocrystalline 182.2x105mm
Front glass	2.0mm , Anti-Reflection Coating
Back glass	2.0mm , Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68 , 3 bypass diodes
Output wire	4mm ²
Wire length	300mm/1100mm/customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet ; 864 pcs/40' HQ

ELECTRIC CHARACTERISTICS

NT7 N-TYPE 500 W BF

Model of modules	SLMDL500N-FB-BF-GG	
	STC	NOCT
Maximum power — P_{mp} (W)	500	378.1
Open-circuit voltage — V_{oc} (V)	40.01	37.9
Short-circuit current — I_{sc} (A)	15.83	12.75
Maximum power voltage — V_{mp} (V)	33.38	31.40
Maximum power current — I_{mp} (A)	14.98	12.04
Cell efficiency	24.22	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5, Flash test tolerance + -4 %

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

Total power Pmax/W	575.00
Vmp / V (Total)	33.38
Imp / A (Total)	17.23
Voc / V (Total)	40.01
Isc / A (Total)	18.20

OPERATING PARAMETERS

Power tolerance (W)	(0~+4)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85°C
Mechanical load	8000Pa/5400Pa

TEMPERATURE RATINGS

Temperature coefficient (P_{max})	-0.30% / °C
Temperature coefficient (V_{oc})	-0.25% / °C
Temperature coefficient (I_{sc})	0.045% / °C
Nominal operating cell temperature	45±2 °C

