

# NORDIKA SERIES 570W / 590W

## NT7 N-Type Rectangle TOPCon 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



Excellent low irradiance performance



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



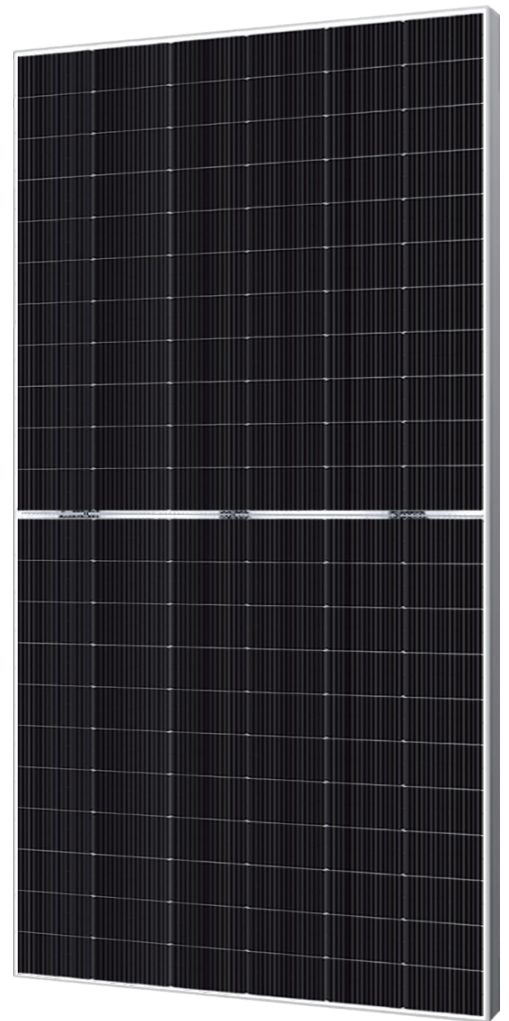
Industry leading lowest thermal co-efficient of power



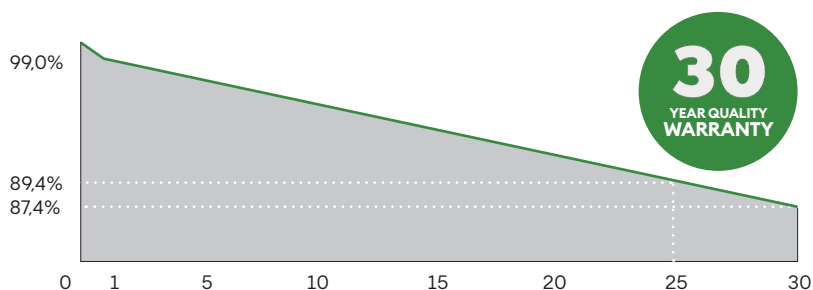
Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient



100% triple EL test enabling remarkable reduction of hidden crack rate of modules



### LINEAR PERFORMANCE WARRANTY



### ABOUT OMNIS POWER

Omnis Power was founded in 2010 by a group of entrepreneurs with experience in the energy sector and a common idea: to innovate the renewable energy sector. Arising from several spin-offs of leading companies in the industry, Omnis Power is at the forefront of new technology research and competitive product development.

Today, Omnis Power is a European company with international experience that believes and invests Norway in addition to numerous partners around the world. The increasingly strong group already has offices in Italy, Lithuania, Estonia, Germany and Norway in addition to numerous partners around the world.

## ELECTRIC CHARACTERISTICS

## NT7 N-TYPE 570/590 W BF

Model of modules	OP570M66-NT7-BF		OP575M66-NT7-BF		OP580M66-NT7-BF		OP585M66-NT7-BF		OP590M66-NT7-BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	570	429.5	575	433.7	580	437.9	585	442	590	446
Open-circuit voltage — $V_{oc}$ (V)	47.76	45.10	47.97	45.30	48.19	45.60	48.4	45.80	48.61	46.00
Short-circuit current — $I_{sc}$ (A)	15.11	12.17	15.16	12.21	15.21	12.25	15.26	12.29	15.31	12.33
Maximum power voltage — $V_{mp}$ (V)	39.91	37.40	40.12	37.60	40.33	37.80	40.54	38.00	40.75	38.20
Maximum power current — $I_{mp}$ (A)	14.28	11.50	14.33	11.54	14.38	11.58	14.43	11.62	14.48	11.67
Cell efficiency	23.89		24.10		24.31		24.52		24.73	

**STC** (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5, Flash test tolerance + -4 %

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

## ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

Total power Pmax/W	655.5	661.25	667	672.75	678.5
Vmp / V (Total)	39.91	40.12	40.33	40.54	40.75
Imp / A (Total)	16.42	16.48	16.54	16.59	16.65
Voc / V (Total)	47.76	47.97	48.19	48.40	48.61
Isc / A (Total)	17.38	17.43	17.49	17.55	17.61

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2278x1134x30mm
Weight	32kg
Cell	132 cells, N type Monocrystalline 182.2x99.5mm
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 <sup>2</sup>
Wire length	300mm/1300mm/customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet ; 720 pcs/40' HQ

## 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	5400 Pa / 2400 Pa

## TEMPERATURE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.30% / °C
Temperature coefficient ( $V_{oc}$ )	-0.25% / °C
Temperature coefficient ( $I_{sc}$ )	0.046% / °C
Nominal operating cell temperature	45±2 °C

## MODULE DIMENSIONS (MM)

