

# **NORDIKA SERIES** 560W/590W

# **NORDIKA NT5 N-Type Bifacial Silver Frame**



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



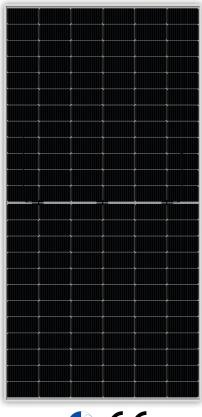
Industry leading lowest thermal co-efficient of power



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



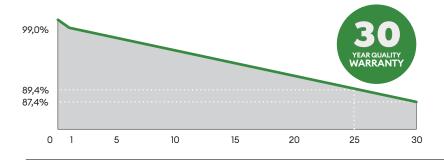
100% triple EL test enabling remarkable reduction of hidden crack rate of modules







#### LINEAR PERFORMANCE WARRANTY



#### PERFORMANCE INSURANCE





### **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 in Europe. The increasingly strong group already has offices in Italy, Lithuania, Estonia, Germany and Norway in addition to numerous partners around the world.



#### **ELECTRIC CHARACTERISTICS**

Model of modules	OP560M72-NT5-BF		OP565M72-NT5-BF		OP570M72-NT5-BF		OP580M72-NT5-BF		OP590M72-NT5-BF	
	STC	NOCT								
$\operatorname{Maximum\ power} - \operatorname{P}_{\operatorname{mp}}(\operatorname{W})$	560	417	565	421	570	425	580	432	590	439
Open-circuit voltage — $V_{oc}$ (V)	50.11	47.30	50.26	47.44	50.47	47.64	51.19	48.32	51.24	48.37
Short-circuit current $-I_{sc}(A)$	13.93	11.25	13.98	11.30	14.01	11.32	14.06	11.36	14.26	11.52
${\it Maximum power voltage-V_{mp}(V)}$	42.54	39.82	42.82	40.09	43.10	40.35	43.52	40.74	44.05	41.24
${\rm Maximum\ power\ current} - {\rm I}_{\rm mp}  {\rm (A)}$	13.16	10.48	13.19	10.50	13.22	10.52	13.33	10.61	13.38	10.65
Module efficiency $-\eta_m$ (%)	21.68		21.87		22.07		22.45		22.84	

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 DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)**

Peak Power (Pmax) (W)	620	626	632	643	653
Open Circuit Voltage (V <sub>oc</sub> ) (V)	50.11	50.26	50.47	51.19	51.24
Short Circuit Current (I <sub>sc</sub> ) (A)	15.43	15.49	15.53	15.58	15.80
${\it Maximum power voltage} - {\it V}_{\it mp} ({\it V})$	42.54	42.82	43.10	43.52	44.05
Maximum power current — I <sub>mp</sub> (A)	14.59	14.62	14.65	14.77	14.83

#### STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 30 mm		
Weight	32.3 kg		
Cell	144 cells, N-type Monocrystalline 182x91 mm		
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	4.0 mm <sup>2</sup>		
Wire length	300mm/1200mm/customized		
Connector	MC4 Compatible		
Packing Specification	36 pcs/Pallet; 720 pcs/40'HQ		

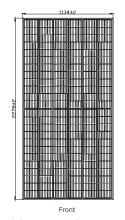
#### **OPERATING PARAMETERS**

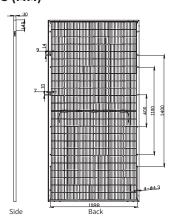
Power tolerance (W)	(0,+4)			
Maximum system voltage (V)	1500			
Maximum rated fuse current (A)	30			
Current operating temperature (°C )	-40~+85 °C			
Mechanical load	5400 Pa / 2400 Pa			

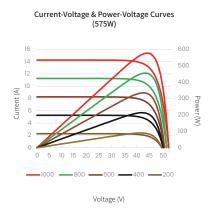
#### **TEMPERATURE RATINGS**

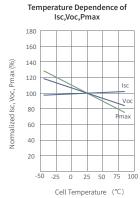
Temperature coefficient ( $P_{max}$ )	-0.30 %/°C
Temperature coefficient (V <sub>oc</sub> )	-0.26 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.046 %/°C
Nominal operating cell temperature	43±2℃

# **MODULE DIMENSIONS (MM)**











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 $<sup>^\</sup>star$  The unma rance is  $\pm 1\,\mathrm{mm}$ Length shown in mm