

NORDIKA SERIES 465W/485W

NT5 N-Type **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



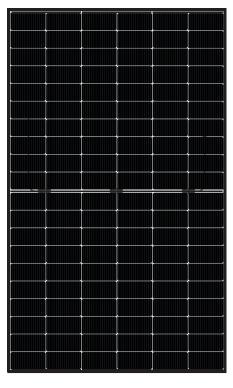
Industry leading lowest thermal co-efficient of power



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

99.0% 89.4% 87,4% 10 25 30

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	OP465M60-NT5-BF		OP470M60-NT5-BF		OP475M60-NT5-BF		OP480M60-NT5-BF		OP485M60-NT5-BF	
	STC	NOCT								
$\operatorname{Maximum\ power} - \operatorname{P}_{\operatorname{mp}}(\operatorname{W})$	465	346	470	350	475	354	480	358	485	361
Open-circuit voltage — V _{oc} (V)	41.70	39.36	41.88	39.53	42.06	39.70	42.31	36.94	42.48	40.10
Short-circuit current $-I_{sc}(A)$	13.92	11.25	13.96	11.28	14.01	11.32	14.05	11.35	14.14	11.42
${\it Maximum power voltage-V_{mp}(V)}$	35.33	33.07	35.69	33.41	35.92	33.63	35.96	33.66	36.11	33.80
${\rm Maximum\ power\ current} - {\rm I_{mp}\ (A)}$	13.16	10.47	13.17	10.48	13.22	10.52	13.35	10.62	13.43	10.69
Module efficiency $-\eta_m$ (%)	21.6		21.8		22.0		22.2		22.5	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5, Flash test tolerance +- 3% 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)	515	521	526	532	537
Open Circuit Voltage (V_{oc}) (V)	41.70	41.88	42.06	42.31	42.48
Short Circuit Current (I _{sc}) (A)	15.42	15.47	15.52	15.57	15.67
${\it Maximum power voltage-V_{mp}(V)}$	35.33	35.69	35.92	35.96	36.11
Maximum power current — I _{mp} (A)	14.58	14.59	14.65	14.79	14.88

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1903 x 1134 x 30 mm		
Weight	26.3kg		
Cell	120 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 ²		
Wire length	300mm/1200mm/customized		
Connector	MC4 original (EVO2)		
Packing Specification	36 pcs/Pallet; 864 pcs/40'HQ		

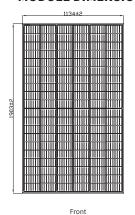
OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa / 2400 Pa

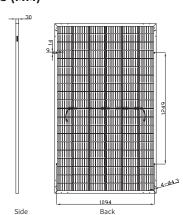
TEMPERATURE RATINGS

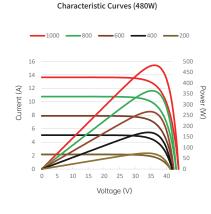
Temperature coefficient (P _{max})	-0.30 %/°C
Temperature coefficient (V _{oc})	-0.26 %/°C
Temperature coefficient (I _{sc})	+0.046 %/°C
Nominal operating cell temperature	43±2℃

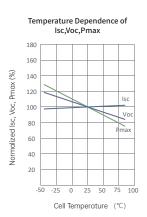
MODULE DIMENSIONS (MM)













CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT @2023 Omnis Power Engineering SpA - All rights reserved.

Specifications included in this datasheet are subject to change without notice.

Country of origin: China, Vietnam, Italy

