

Technical Data

Model	NITROX 6KW	NITROX 10KW	NITROX 15KW	NITROX 20KW
Input Side				
Max. DC Input Power (kW)	7.8	13	20	26
Max. DC Input Voltage (V)		1000		
Start-up DC Input Voltage (V)		250		
MPPT Operating Range (V)		200~850		
Max. DC Input Current (A)	13+13		13+26	32+32
Max. Short Circuit Current (A)	19.5+19.5		19.5+39	48+48
Number of MPPT / Strings per MPPT		2/2		
Output Side				
Rated Output Power (kW)	6	10	15	20
Max. Active Power (kW)	6.6	11	16.5	22
Nominal Output Voltage / Range (V)		3L/N/PE 380V/323V-418V, 400V/340V-440V		
Rated Grid Frequency (Hz)		50 / 60 (Optional)		
Operating Phase		Three phase		
Rated AC Grid Output Current (A)	8.7	14.5	21.7	29
Max. AC Output Current (A)	9.6	15.9	23.9	31.9
Output Power Factor		0.8 leading to 0.8 lagging		
Grid Current THD		<3%		
DC Injection Current (mA)		<0.5%		
Grid Frequency Range		47~52 or 57~62 (Optional)		
Efficiency				
Max. Efficiency		98.6%		
Euro Efficiency		97.8%		
MPPT Efficiency		>99%		
Protection				
DC Reverse-Polarity Protection		Yes		
AC Short Circuit Protection		Yes		
AC Output Overcurrent Protection		Yes		
Output Overvoltage Protection		Yes		
Insulation Resistance Protection		Yes		
Ground Fault Monitoring		Yes		
Anti-islanding Protection		Yes		
Temperature Protection		Yes		
Integrated DC Switch		Yes		
Remote software upload		Yes		
Remote change of operating parameters		Yes		
Surge protection		DC Type II / AC Type II		
General Data				
Size (mm)	330W×457H×185D	330W×508H×206D	333W×472H×202D	362W×527H×220D
Weight (kg)	10	10	15	20
Topology		Transformerless		
Internal Consumption		<1W (Night)		
Running Temperature		-25~65°C, >45°Cderating		
Ingress Protection		IP65		
Noise Emission (Typical)		<45 dB		
Cooling Concept		Smart cooling		
Max. Operating Altitude Without Derating		2000m		
Designed Lifetime		>20 years		
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-T1			
Operating Surroundings Humidity		0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Features				
DC Connection		MC-4 mateable		
AC Connection		IP65 rated plug		
Display		LCD1602		
Interface		RS485/RS232/Wifi/LAN		
Warranty	10 Years Warranty (5 Years Replacment Warranty)(T&C)			

