



10 YEARS WARRANTY
5 YEARS REPLACEMENT WARRANTY
TERMS & CONDITIONS APPLY



NitroX[®] 6.10.15.20KW 3Ph-5G PV Solar On Grid Inverter



Max. Efficiency
98.6%



DUAL MPPT



RS485/RS232



Internal SPD



Zero Export (Optional)



IP65 Ingress Protection



High Power Factor

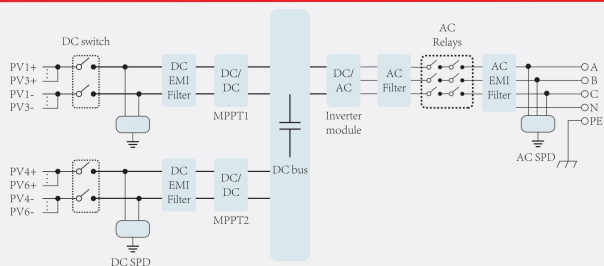


High Surge Endurance

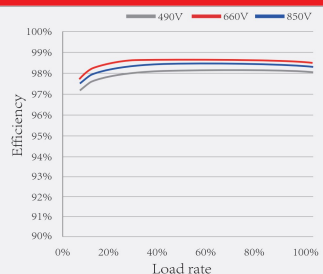


Smart PV Monitoring Platform

Circuit block diagram



Efficiency curve



Solarman
Smart for enduser



Solarman Business
for installers and EPC

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°C derating			
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, C10-11			
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)			