








# NitroX<sup>®</sup>

75KW - 110KW 3Ph-5G  
PV Solar On Grid Inverter

-  Max. 6 MPP trackers, Max. efficiency up to 98.8%
-  Zero export application, VSG application
-  Built-in string intelligent monitoring
-  Built-in AFCI
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Type II DC/AC SPD

**10 YEARS WARRANTY**

**5 YEARS REPLACEMENT WARRANTY**  
TERMS & CONDITIONS APPLY



Smart PV Monitoring Platform  
(Inverex Cloud)

Model	NITROX 75KW	NITROX 110KW
<b>PV String Input Data</b>		
Max. PV Input Power (kW)	97.5	150
Max. PV Input Voltage (V)		1000
Start-up Voltage (V)		250
MPPT Voltage Range (V)		200-850
Rated PV Input Voltage (V)		600
Max. Operating PV Input Current (A)	40+40+40+40	40+40+40+40+40+40
Max. Input Short Circuit Current (A)	60+60+60+60	60+60+60+60+60+60
No. of MPP Trackers/ No. of Strings per MPP Tracker	4/4+4+4+4	6/4+4+4+4+4+4
<b>AC Output Side</b>		
Rated AC Output Active Power (kW)	75	110
Max. AC Output Apparent Power (kVA)	82.5	121
Rated AC Output Current (A)	113.6/108.7	166.7/159.4
Max. AC Output Current (A)	125/119.6	183.3/175.4
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un	
Grid Connection Form	3L/N/PE	
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi	<3%	
DC Injection Current	<0.5%In	
<b>Efficiency</b>		
Max. Efficiency	98.7%	98.8%
Euro Efficiency	98.1%	98.2%
MPPT Efficiency	>99%	
<b>Equipment Protection</b>		
DC Polarity Reverse Connection Protection	Yes	
AC Output Overcurrent Protection	Yes	
AC Output Overvoltage Protection	Yes	
AC Output Short Circuit Protection	Yes	
Thermal Protection	Yes	
DC Terminal Insulation Impedance Monitoring	Yes	
DC Component Monitoring	Yes	
Ground Fault Current Monitoring	Yes	
Power Network Monitoring	Yes	
Island Protection Monitoring	Yes	
Earth Fault Detection	Yes	
Overvoltage Load Drop Protection	Yes	
Residual Current (RCD) Detection	Yes	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
<b>Interface</b>		
Communication Interface	RS485/RS232 /WiFi/LAN	
<b>General Data</b>		
Operating Temperature Range (°C)	-25 to +65 °C , >45 °C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude (m)	4000m	
Noise (dB)	≤55	
Ingress Protection (IP) Rating	IP 65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)	826×516×312.7 (Excluding Connectors and Brackets)	
Weight (kg)	81	
Warranty	10 Years ( 5 Years Replacement Warranty )	
Type of Cooling	Intelligent Air Cooling	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	