

NitroX®
35KW 3Ph-5G
PV Solar On Grid Inverter

- Max. Efficiency 98.7%
- Dual MPPT Multi String
- RS485/RS232
- Internal SPD
- Zero Export (Optional)
- IP65 Ingress Protection
- High Power Factor
- High Surge Endurance
- PV string current monitoring (Optional)
- PV string current monitoring(Optional)
- PID-Recovery function(optional)



Smart PV Monitoring Platfrom

10 YEARS WARRANTY
5 YEARS REPLACEMENT WARRANTY

Solarman Smart for enduser

Solarman Business for installers and EPC

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INVEREX® SOLAR ENERGY

NitroX®
35KW 3Ph-5G
PV Solar On Grid Inverter

Technical Data

Model	NITROX 35KW
Input Side	
Max. DC Input Power (kW)	45.5
Max. DC Input Voltage (V)	1000
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	200~850
Max. DC Input Current (A)	40+40
Max. Short Circuit Current (A)	60+60
Number of MPPT / Strings per MPPT	2/3
Output Side	
Rated Output Power (kW)	35
Max. Active Power (kW)	38.5
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)	50.7
Max. AC Output Current (A)	55.8
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)	362W×577H×215D
Weight (kg)	25.5
Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25~65℃, >45℃ 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)

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