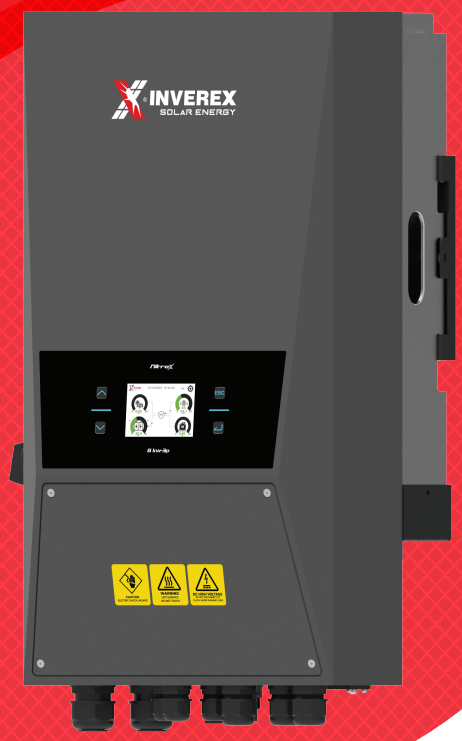
INVEREX
SOLAR ENERGY



nitroX®

8KW 3P HYBRID

- 100 — 100% unbalanced output, each phase; Max. output up to 50% rated power
- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 10 — Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 190 — Max. charging/discharging current of 190A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

IP65

5 YEARS WARRANTY
Terms & Conditions Apply

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INVEREX SOLAR ENERGY

nitroX® 8KW 3P HYBRID

Model	NITROX HYBRID 8 KW 3P-5G
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Input Power (W)	12800
Max. PV Input Voltage (V)	800
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Rated PV Input Voltage (V)	550
Max. Operating PV Input Current (A)	20+20
Max. Input Short-Circuit Current (A)	30+30
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	8000
Max. AC Input/Output Apparent Power (VA)	88000
Rated AC Input/Output Current (A)	12.2/11.6
Max. AC Input/Output Current(A)	13.4/12.8
Max. Continuous AC Passthrough (grid to load) (A)	45
Peak Power (off-grid) (W)	2 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
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)	350×660×266 (Excluding Connectors and Brackets)
Weight (kg)	36.2
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy
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