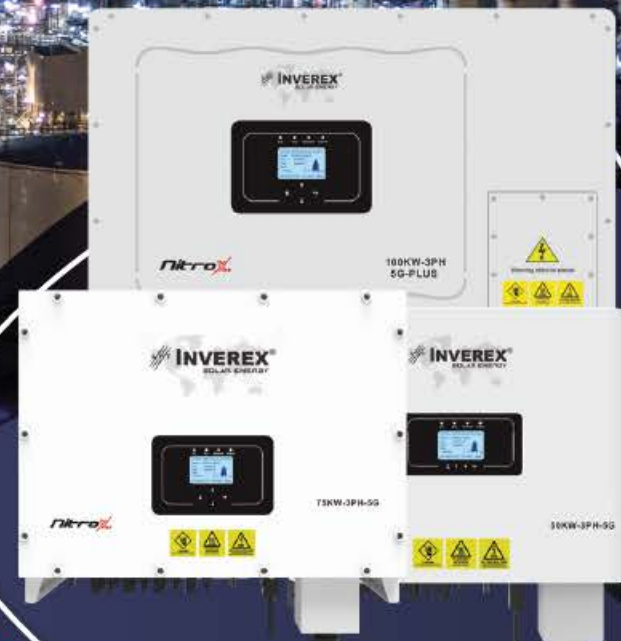
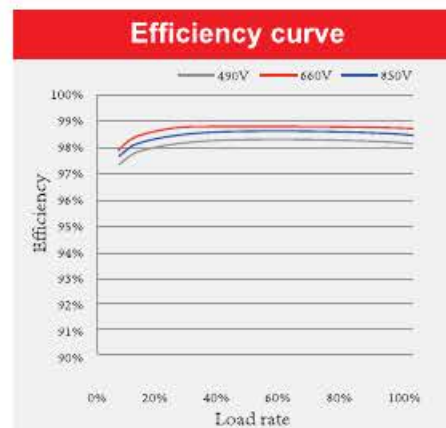
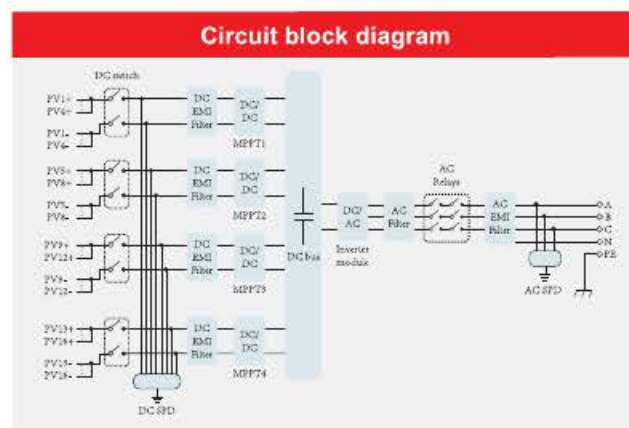




10 YEARS WARRANTY
5 YEARS REPLACEMENT WARRANTY
TERMS & CONDITIONS APPLY

NitroX®
50,75,100KW 3Ph-5G
PV Solar On Grid Inverter

- Max. Efficiency 98.9%**
- 4 MPPT For 50 & 75KW**
- 6 MPPT for 100 KW**
- Internal SPDs**
- Zero Export (Optional)**
- RS485/RS232**
- High Power Factor**
- High Surge Endurance**
- IP65 Ingress Protection**



Solarman Smart for enduser
Solarman Business for installers and EPC

Technical Data

Model	NITROX 50KW	NITROX 75KW	NITROX 100KW
Input Side			
Max. DC Input Power (kW)	65	97.5	150
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+40+40	40+40+40+40	40+40+40+40+40+40
Max. Short Circuit Current (A)	60+60+60+60	60+60+60+60	60+60+60+60+60+60
Number of MPPT / Strings per MPPT	4/3	4/4	6/4
Output Side			
Rated Output Power (kW)	50	75	100
Max. Active Power (kW)	55	82.5	110
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)	72.4	108.7	144.9
Max. AC Output Current (A)	79.7	119.6	159.4
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		>0.99	
DC Injection Current (mA)		<3%	
Grid Frequency Range		47~52 or 57~62 (Optional)	
Efficiency			
Max. Efficiency		98.7%	
Euro Efficiency		98.3%	
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)	647.5W×537H×303.5D	700W×575H×297D	838W×568H×323D
Weight (kg)	44.5	60	73.7
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C, >45°C derating	
Ingress Protection		IP65	
Noise Emission (Typical)		<55 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		LCD 240 × 160	
Interface		RS485/RS232/Wifi/LAN	
Warranty		10 Years Warranty (5 Years Replacement Warranty)(T&C)	

