



# NitroX<sup>®</sup>

## 8KW-48V SP-HYBRID

**PV INVERTER WITH ENERGY STORAGE**

- |                           |                              |                         |
|---------------------------|------------------------------|-------------------------|
| Max. Efficiency 97.6%     | IP65 Ingress Protection      | Dual MPPT               |
| Support Multiple Parallel | Support Generator Connection | Internal SPD            |
| Zero Export               | High Surge Endurance         | Six Time of Use Setting |
| Dual Output               | RS485 / CAN                  | High Power Factor       |
| Safe                      | Efficiency                   | Touch Screen Display    |



**10400 WATTS**

DUAL MPPT  
SUPPORTS UPTO 600 WATTS  
SOLAR PANEL



### Remote Monitoring Features

- Compatible With Inverex Power Cube
- External light indicator, logging status at a glance.
- Plug & play, pick power within inverter, no external power needed, easy to install.
- IP65 water-proof design, resistant to bad weather, enhance stability.
- External design, easier to replace faulty equipment.
- End-user can monitor yields at any time with SOLARMAN APP.



Smart PV Monitoring Platform



Stick Logger



## Technical Data

Model	NITROX HYBRID 8 KW SP-48V
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
External Temperature Sensor	yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
<b>PV String Input Data</b>	
Max. DC Input Power (W)	10400W
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load DC Voltage Range (V)	200-425
PV Input Current (A)	26+26A
Max. PV ISC (A)	34+34
Number of MPPT / Strings per MPPT	2/1+1
<b>AC Output Data</b>	
Rated AC Output and UPS Power (W)	8000
Max. AC Output Power (W)	8800
AC Output Rated Current (A)	36.4/34.8A
Max. AC Current (A)	40/38.3A
Max. Continuous AC Passthrough (A)	50
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 220/230 (single phase)
Grid Type	Single Phase
DC injection current (mA)	THD<3% (Linear load<1.5%)
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	>99%
Transfer time	4ms
<b>Protection</b>	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
<b>Certifications and Standards</b>	
Grid Regulation	EN50549, AS4777.2, VDE0126, IEC61727, VDE N4105, G99, NBT32004, CEI0-21, NRS097, NBR16149/16150, RD1699
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
<b>General Data</b>	
Operating Temperature Range (°C)	-45~60°C, >45°C derating
Cooling	Smart cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Weight (kg)	20.5
Size (mm)	330W×580H×232D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years (T&C)

