

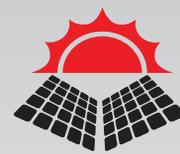


NitroX[®]

6KW-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 |



7800 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



Solarman
Smart For
enduser



Solarman Business
For installers
and EPC



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Technical Data

| Model | NITROX HYBRID 6 KW SP-48V |
|--------------------------------------|---|
| Battery Input Data | |
| Battery Type | Lead-acid or Li-Ion |
| Battery Voltage Range (V) | 40~60 |
| Max. Charging Current (A) | 135 |
| Max. Discharging Current (A) | 135 |
| External Temperature Sensor | Optional |
| Charging Curve | 3 Stages / Equalization |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS |
| PV String Input Data | |
| Max. DC Input Power (W) | 7800W |
| 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) | 300-425 |
| PV Input Current (A) | 13+13A |
| Max. PV ISC (A) | 17+17A |
| Number of MPPT / Strings per MPPT | 2/1+1 |
| AC Output Data | |
| Rated AC Output and UPS Power (W) | 6000 |
| Max. AC Output Power (W) | 6600 |
| AC Output Rated Current (A) | 27.3/26.1A |
| Max. AC Current (A) | 30/28.7A |
| Max. Continuous AC Passthrough (A) | 40 |
| 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; 220V/187V-242V, 230V/ 195.5V-253V |
| Grid Type | Single Phase |
| DC injection current (mA) | THD<3% (Linear load<1.5%) |
| Max. Efficiency | 97.60% |
| Euro Efficiency | 96.50% |
| MPPT Efficiency | >99% |
| Transfer time | 4ms |
| Protection | |
| Integrated | PV Arc Fault Detection, 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 |
| Certifications and Standards | |
| Grid Regulation | EN50549, AS4777.2, VDE0126, IEC61727, VDEN4105, 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 |
| General Data | |
| Operating Temperature Range (°C) | -45~60°C, >45°C derating |
| Cooling | Smart cooling |
| Noise (dB) | <30 dB |
| Communication with BMS | RS485; CAN |
| Weight (kg) | 14 |
| Size (mm) | 330W×433H×238D |
| Protection Degree | IP65 |
| Installation Style | Wall-mounted |
| Warranty | 5 years (T&C) |

