

# OFF-GRID SOLAR INVERTER

## 10 kVA ~ 120 kVA (3:3)

- Multiple MPPT charger controllers
- Hot-swap MPPT modules for easy maintenance and expansion
- Configurable battery parameters via LCD settings
- Self-regulation for charging voltage
- Intelligent AC and PV complementation power supply
- Intelligent staggering power consumption function



## SPECIFICATIONS

MODEL	NXG10K	NXG20K	NXG30K	NXG40K	NXG60K	NXG80K	NXG100K	NXG120K
Rated power	9 kW	18 kW	27 kW	36 kW	54 kW	72 kW	90 kW	108 kW
Operating mode	AC and PV complementation							
<b>PV INPUT</b>								
Max. input power	25 kW		2 × 25 kW		3 × 25 kW	4 × 25 kW	5 × 25 kW	6 × 25 kW
Max. input voltage	750 Vdc							
Rated input voltage	500 Vdc							
Start-up voltage	≥ (battery voltage + 20) Vdc							
Max. input current	60 A		120 A		180 A	240 A	300 A	360 A
MPPT voltage range (Full load)	450 ~ 550 Vdc							
Number of MPPTs	1 + 1 (reserved)		2 + 1 (reserved)		3 + 1 (reserved)	4 + 2 (reserved)	5 + 3 (reserved)	6 + 2 (reserved)
<b>AC INPUT</b>								
Input voltage	380 Vac ± 20% (line voltage), three-phase (rectifier) 380 Vac ± 20% (line voltage) three-phase + N + PE (bypass)							
Input frequency	(50 / 60 Hz) ± 5 Hz							
<b>OUTPUT</b>								
Output voltage	380 / 400 / 415 Vac ± 1% (line voltage), three-phase + N + PE							
Output frequency	(50 / 60 Hz) ± 1 Hz							
Rated output current	15 A	30 A	45 A	60 A	91 A	120 A	152 A	182 A
Waveform	Sinusoidal							
THD	THDu ≤ 3% (linear load)							
<b>BATTERIES</b>								
Battery type	Lead-acid battery / Li-ion battery (optional)							
Battery voltage	360 Vdc							
Charging current	15 A by default, settable based on inverter model and battery capacity							
<b>TRANSFER TIME</b>								
PV ↔ AC	0 ms							
<b>EFFICIENCY</b>								
Max. efficiency	≥ 91%		≥ 92%		≥ 93%			
MPPT efficiency	≥ 98% (max.)							
<b>OTHERS</b>								
Protections	Over / under voltage, over / under-frequency, output overload, short-circuit, overtemperature, battery low voltage, overcharge, PV reverse polarity							
Communications	RS232 / RS485 / dry contacts (standard), SNMP / Wi-Fi / GPRS (optional)							
Display	LCD & LED							
Standards	EN 62040-1, EN 62040-2, IEC 62040-2							
IP rating	IP 20							
Operating temperature	0°C ~ 40°C							
Relative humidity	90% (non-condensing)							
Altitude	1000 m at rated power (derating 1% for each additional 100 m); Max. 4000 m							
Noise level at 1 m	≤ 65 dB (varies with loads and temperature)							
Dimensions (W × D × H) (mm)	450 × 840 × 1100		600 × 700 × 1750			960 × 800 × 1700		
Packaged dimensions (W × D × H) (mm)	560 × 940 × 1300		700 × 800 × 1950			1060 × 900 × 1900		
Net Weight (kg)	210	223	360	410	495	828	834	840
Gross Weight (kg)	230	245	380	430	515	848	854	860

● All specifications are subject to change without notice.