



## Three Phase Hybrid Inverter

Product Model

**GN8000E**  
**GN10000E**  
**GN12000E**

### Product Features

#### Safe & Reliable

PV reverse polarity protection,  
battery reverse polarity protection,  
insulation monitoring.

#### Friendly & Flexible

Less noise due to no external  
cooling fans;  
Support diesel generator access;

#### Economical & Practical

More economical to support  
multiple operating modes;  
UPS function

### Electrical Characteristics

Project	Model	GN8000E	GN10000E	GN12000E
	Specification	Parameter	Parameter	Parameter
PV Input	Max PV input power (KW)	12	15	18
	Max PV Open Circuit Voltage (V)	1000		
	MPPT Range@Operating Voltage (VDC)	180~850		
	Full Power MPPT Voltage Range (VDC)	330~850	430~850	510~850
	Start-up Voltage (VDC)	125		
	Max.Input Current per MPPT (A)	13/13		
	Max. Short-circuit Current (A)	16/16		
	MPPT Tracker/Strings	2/1		
	Rated Input Voltage (V)	600		
AC Output (On-Grid)	Nominal Output Power to Grid (KVA)	8	10	12
	Max. Apparent Power to Grid (KVA)	8.8	11	13.2
	Max. Apparent Power from Grid (KVA)	17.6	22	26.4
	Max. Apparent Current from Grid (A)	25	31.8	38.1
	Nominal Output Current to Grid (A)	11.5	14.4	17.3
	Max.Output Current to Grid (A)	12.7	15.9	19.1
	Nominal Voltage/Frequency	380V/ 400V, 50 / 60 Hz, 3W+N+PE		
THDI	<2%			
AC Output Data (Back Up)	Nominal Output Power (KVA)	8	10	12
	Max. Apparent Power (KVA)	8.8	11	13.2
	Nominal Output Current (A)	11.5	14.4	17.3
	Max.Output Current (A)	12.7	15.9	19.1
	Nominal Voltage/Frequency	400V, 50 / 60Hz, 3W+N+PE		
	THDu	<2%		
	Max.Efficiency	97.9%	98.2%	
	Europe Efficiency	97.2%	97.5%	
Battery	MPPT Efficiency	99.9%		
	Max.Battery Charge/Discharge Efficiency	97.5%		97.6%
	Max.Charging/Discharging Power (KW)	8.8	11	13.2
	Battery Voltage Range (V)	125~600		
	Battery Working Voltage Range (V)	150~550		
Interface	Max.Charging/Discharging Current (A)	50		
	Rated.Charging/Discharging Current (A)	40		
	Battery Type	Lithium and Lead Acid Battery		
	HMI	LCD, APP		
General Data	BMS	RS485,CAN		
	EMS/Meter	RS485		
	Supported Communication Interface	WIFI / GPRS / 4G		
	Ingress Protection	IP65		
	Operating Temperature Range	-35~60 C		
	Relative Humidity	0~100%		
	Operating Altitude	4000m(Derating above 2000 m)		
	Cooling	Natural Convection		
	Noise Emission	<=25dB		
	Installation / Weight	Wall Mounted / 30kg	Wall Mounted / 31kg	Wall Mounted / 32 kg
Dimensions (W*H*D)	530*560*220mm			
Safety Regulation	IEC/EN 6210 9 -1/- 2			
EMC	IEC/EN 61000-6-2/-4			
Grid Regulation	Europe: EN50549, Germany: VDE-AR-N 4105, South Africa: NRS 097-2-1:2017			