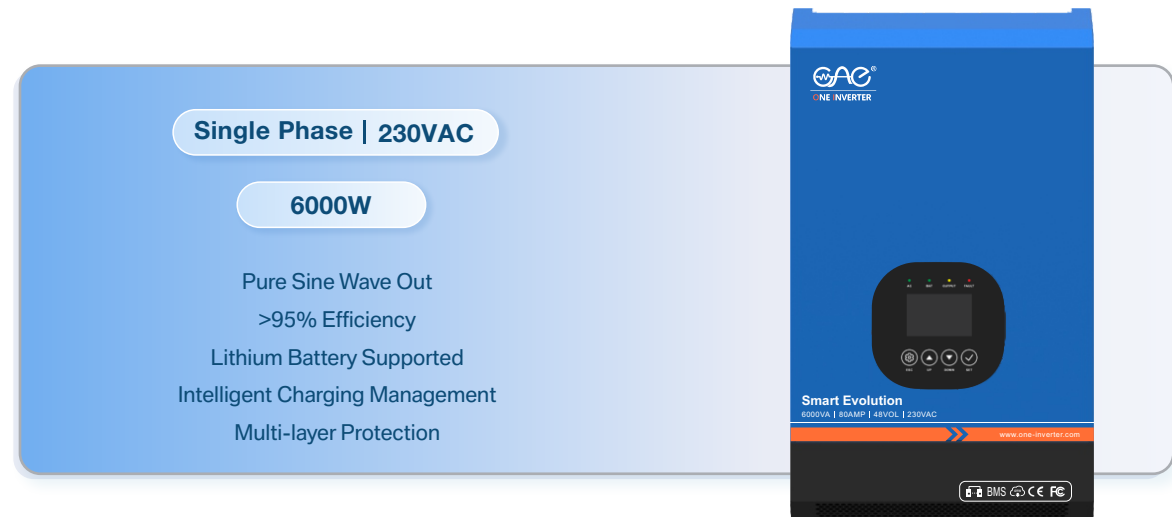


GP-60248

Low Frequency Power Inverter

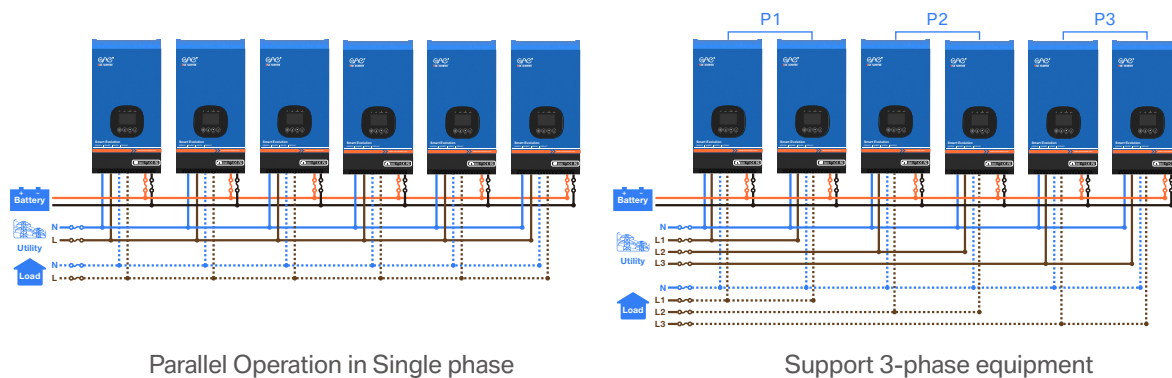


The GP Series is a professional low-frequency transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output, 6KW rated power, 18KW surge, 10ms UPS transfer, supports up to 6 parallel units for 36KW single-phase or three-phase expansion, and includes a 10A–80A adjustable charger with active PFC, compatible with lead-acid and lithium batteries via CAN/RS485.

FEATURES

- Rated power 6KW.
- Pure sine wave AC output.
- Parallel Operation Supported.
- With CAN/RS485 for BMS communication.
- Wi-Fi remote monitoring (optional).
- Grid-powered only, battery-free operation
- System will go to bypass and cut off charging if an error happens under utility grid mode.

PARALLEL & THREE-PHASE OPERATION UP TO 6 UNITS



INVERTER MODEL	6KW
Input Voltage Waveform	Pure sine wave/ same as input (bypass mode)
Nominal Input Voltage	230Vac
Input voltage range	184~272Vac(UPS): 154~272Vac(APL)
Low Loss Voltage	184Vac±7V(UPS), 154Vac±7V(APL)
Low Loss Return Voltage	194Vac±7V(UPS); 164Vac±7V(APL)
High Loss Voltage	>272Vac±7V
High Loss Return Voltage	<262Vac±7V
Nominal Input Frequency	50Hz / 60Hz (Auto detection)
Input Frequency range	45-65Hz
Low Loss Frequency	45±1Hz
Low Loss Return Frequency	47±1Hz
High Loss Frequency	65±1Hz
High Loss Return Frequency	63±1Hz
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)
Input Current	Max 50A
Transfer Time	Typical 10ms
Low DC Cut-off Voltage (Lead-Acid Mode)	42.0Vdc(Based on Program 21, 40Vdc~48Vdc settable)
Low DC Warning SOC (Li Mode)	Low DC Cut-off SOC +5%
Low DC Warning Return SOC (Li Mode)	Low DC Cut-off SOC +15%
Low DC Cut-off SOC (Li Mode)	Default 20%, 5%~49% settable
High DC Recovery Voltage	58Vdc
High DC Cut-off Voltage	AGM:60V, FLD:62V, USE or Li Mode: C.V. Voltage + 4.0V
No Load Power Consumption	<20W

INVERTER MODEL	6KW
Rated Output Power	6KVA / 6KW
Output Voltage Waveform	Pure Sine Wave
Output Voltage Regulation	230Vac±5%
Output Frequency	50Hz
Peak Efficiency	94%
Overload Protection	10s@110%~150% load; 5s@≥150% load
Surge Capacity	18KVA / 18KW
Nominal DC Input Voltage	48Vdc
Cold Start Voltage (Lead-Acid Mode)	Low DC Cut-Off Voltage +2Vdc
Cold Start SOC(Li Mode)	>Low DC Cut-off SOC +10%
Low DC Warning Voltage (Lead-Acid Mode)	44.0Vdc @ load < 20%42.8Vdc @ 20% ≤ load < 50%40.4Vdc @ load ≥ 50%
Low DC Warning Return Voltage (Lead-Acid Mode)	46.0Vdc @ load < 20%44.8Vdc @ 20% ≤ load < 50%42.4Vdc @ load ≥ 50%
Low DC Cut-off Voltage (Lead-Acid Mode)	42.0Vdc @ load < 20%40.8Vdc @ 20% ≤ load < 50%38.4Vdc @ load ≥ 50%

INVERTER MODEL	6KW
Operating Temperature Range	-20℃ to 50℃ (fan assisted cooling)
Storage temperature	-40℃~60℃
Humidity	5% to 95% Relative Humidity (Non-condensing)
Altitude	<2000m
Product size(D*W*H)	600x310x155mm
Packing size(D*W*H)	675x385x230mm
N.W.(KG)	29Kg
G.W.(KG)	32Kg

Utility Charging Mode	
INVERTER MODEL	6KW
Charging Algorithm	3-Step
Max. AC Charging Current	80Amp(@Vip=230Vac)
Bulk Charging Voltage	Flooded Battery 58.4Vdc
	AGM / Gel Battery 56.4Vdc
Floating Charging Voltage	54Vdc