

Split Phase Hybrid Solar Inverter

GES4880M160-500P

- CT Anti-Reverse Current + AC Coupling, Zero Export to Grid; Dual-Source Battery Activation (PV/Grid)
- Diesel Generator Input, Dry Contact Start/Stop Control; Battery-Free Operation, PV + Grid Direct Supply
- 10kW Dual-Channel MPPT, 16A/5000W per Channel; Up to 6 Units Parallel Expansion, Three-Phase System
- Capacitive Touch Color Screen, Remote Diagnostics & OTA
- 10ms UPS-Level Switching, Critical Loads Uninterrupted; 180A Battery Continuous Discharge, 160A Max. Charging Current
- 150% Emergency Peak Output / 5s, Withstands Continuous Impact Loads

Parallel mode	
Permitted parallel number	1-6
ACmode	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input voltage range	(85Vac~140Vac)±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47+0.3Hz~55±0.3Hz (50Hz);57+0.3Hz~65±0.3Hz (60Hz)
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (typical)
AC reverse protection	Yes
Maximum bypass overload current	2pole, 50A/50A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	Split phase: 8000W Single phase:6000W
Rated output power (W)	Split phase: 8000W Single phase: 6000W
Power factor	1
Rated output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)
Output voltage error	±5%
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>93%
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds;
Peak power	Split phase: 12000VA Single phase: 12000VA
Loaded motor capability	5HP
Output short circuit protection	Continuous short circuit 200ms protect
Bypass circuit breaker specification	2pole, 50A/50A(L1/L2)
Rated battery input voltage	51.2V (Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm / overvoltage recovery... settable on LCD screen)
Power saving mode self-consump tion	Load per phase is null or less than 25W enter power-saving mode
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	120A
Charge current error	+5Adc
Charge voltage range	40 -58.6Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	2pole, 50A/50A(L1/L2)
PV charging	
Number of MPPT groups	2
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90Vdc~485Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PV input power	5000W+5000W
Maximum PV input current	18A+18A
PV charge current(can be set)	0~160A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-160A
Certified specifications	
Certification	UL1741
EMC certification leve	FCC part15, CLASS B
Operating temperature range	-10° C to 55° C(>45° C derating)
Storage temperature range	-25° C~60° C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤ 60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communicati on interface	USB/RS485(/WiFi/GPRS)/ Dry node control
Size (L*W*D)	696mm*483mm*214mm
Weight (kg)	18.9KG