GRANDTECH

https://www.gtsolarenergy.com



Off grid,Split phase, 12KW

- CT Zero export to grid.
- Inverter and Grid hybrid Power supply capable of withstanding continuous impact loads.
- 125%EPS peak output in 5s.
- Up to 6 inverters in parallel or change single phase system.
- Support faster charging with battery current up 220A.
- Supports use without battery.PV and grid can supply power to load together.
- Usable PV power up to 150%inverter rated power,Dual-channel MPPT,27A*2 PV input. compatible with all residential modules and flexible arrays.
- UPS-Level Switching time down to 10ms.
- Support diesel generator input
- Easy &intuitive capacitive touch screen.
- Remote diagnostics &OTA update.

MODEL	GES48120M250-500XP
Permitted parllel number	1~6
AC mode	
Rated input voltage	120(L1/N,L2/N)/240Vac(L1/L2)
Input phase 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);
Efficiency	>95%
Conversion time(bypass and inverter)	10ms(typical)
Maximum bypass phase overload current	2P,63A/63A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	Split phase:12000 Single phase:7200 (limited by the wiring terminals)
Rated output power (W)	Split phase:12000 Single phase:7200(limited by the wiring terminals)
Rated output voltage (Vac)	120Vac(L1/N,L2/N)/240Vac(L1/L2)
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Peak power	Split phase:18000VA Singe phase:18000VA
Loaded motor capability	6HP
Bypass circuit breaker phase specification	2pole,63A/63A(L1/L2)
Rated battery input voltage	51.2V(Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current (can be set)	160A
Charge voltage range	40-58.6Vdc
PV charging	
Number of MPPT groups	2
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90Vdc~500Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PVinput power	9000W+9000W
Maximum PVinput current	32A+32A
PV charge current (can be set)	250A
Max charger current (can be set)	0-250A
Certified specifications	
Certification	UL1741
EMC certification leve	FCC part15,CLASS B
Operating temperature range	-10℃ to 55℃(>45℃ derating)
Storage temperature range	-25℃~60℃
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 Connect Control
Size (L*W*D)	620mm*450mm*132mm
Weight(kg)	23.8