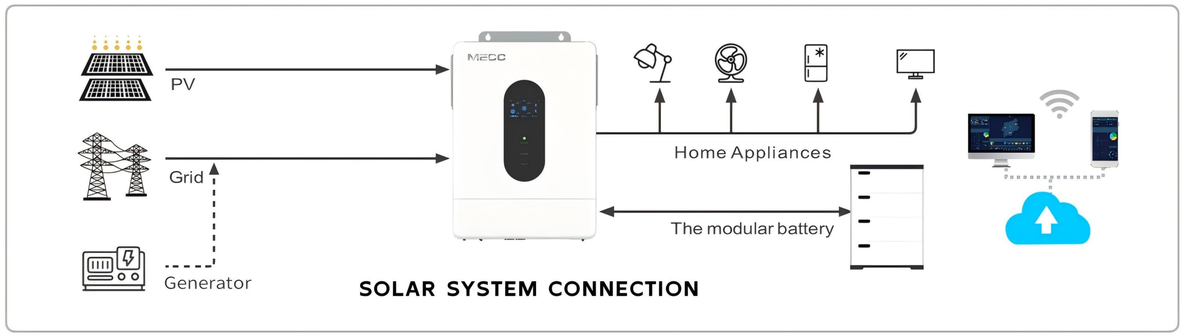
GES48M Series

Split phase dual channel inverter

- DUAL-CHANNEL MPPT
- MAX. EFFICIENCY >95%
- FLEXIBLE MONITOR MODE
- OLED LIGHT TOUCH SCREEN
- EXTREME SECURITY
- ACCURATE TOUCH AND QUICK RESPONSE



SOLAR SYSTEM CONNECTION

Application scenario

House | Farm | Telecom | Countryside | Island | Pasture

MODEL	GES4872M150-500P	GES48100M200-500P	GES48120M250-500P
MAIN MODE			
Nominal output voltage	120(L1/N, L2/N)/240Vac(L1/L2)		
Input phase voltage range	(85Vac~140Vac)±2%		
Frequency	50Hz/60Hz (Auto detection)		
Max. efficiency	>91%		
Conversion time (bypass and inverter)		10ms (typical)	
INVERTER MODE			
Output voltage waveform	Pure sine wave		
Nominal output power (VA / W)	7200	10000	12000
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Power factor	1		
Nominal output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)		
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz		
Peak power	12000VA	15000VA	18000VA
Loaded motor capability	4HP	5HP	6HP
Nominal battery input voltage	51.2V (Minimum starting voltage 44V)		
MAINS CHARGE			
Battery type	Lead acid or lithium battery		
Max. charge current (configurable)	120A	120A	160A
Charge voltage range	40 –58.6Vdc		
SOLAR CHARGE			
Max. PV open circuit voltage	500Vdc		
PV operate voltage range	90Vdc~500Vdc		
MPPT voltage range	90Vdc~450Vdc		
Battery voltage range		40-58.6Vdc	
Charge current range (configurable)	0-150A	0-200A	0-250A
Max. hybrid charge current (PV+AC)			
Max. hybrid charge current (configurable)	0-150A	0-200A	0-250A
CERTIFICATION			
Safety certification	UL1741 / CSA C22.2#107.1		
EMC certification level	FCC part15, CLASS B		
Operate 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		
Cooling	Forced air cooling, variable speed of fan		
Communicate	USB/RS485(/WiFi/GPRS)/ Dry node control		
Dimensions (LWD)	640x450x220mm		
Weight (kg)	17.5		