SPI48-300 M Series

Single phase dual channel inverter

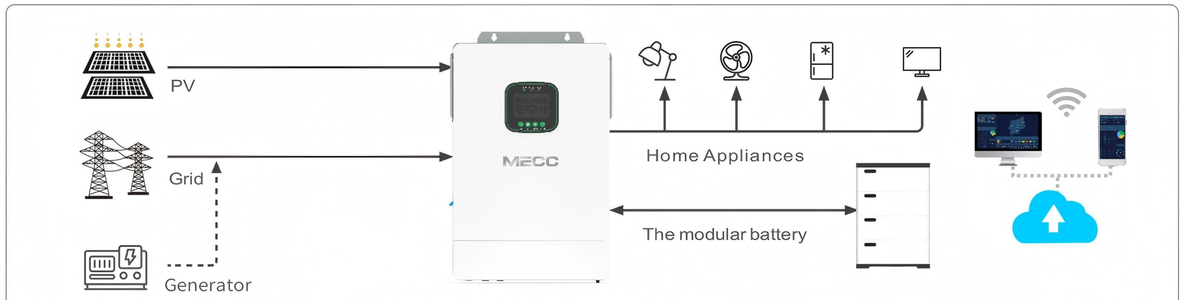
DUAL-CHANNEL MPPT

MAX. EFFICIENCY >95%

FLEXIBLE MONITOR MODE

OLED DISPLAY AND TOUCH BUTTONS

EXTREME SECURITY



SOLAR SYSTEM CONNECTION

Application scenario

House | Farm | Telecom | Countryside | Island | Pasture

MODEL	SPI4836M80-300P	SPI4865M150-300P
MAIN MODE		
Nominal output voltage	120Vac ±5%	
Input phase voltage range	(90Vac~140Vac)±2%	
Frequency	50Hz/60Hz (Auto detection)	
Max. efficiency	>91%	
Conversion time (bypass and inverter)	10ms (typical)	
Max. phase bypass overload current	40A	60A
INVERTER MODE		
Output voltage waveform	Pure sine wave	
Nominal output power (VA / W)	3600VA	6500VA
Nominal output power (VA / W)	3600VA	6500VA
Power factor	1	
Nominal output voltage (Vac)	120Vac	
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	
Peak power	7200VA	12000VA
Loaded motor capability	2HP	5HP
Nominal battery input voltage	48V (Minimum starting voltage 44V)	
Save power mode	Enter power-saving mode when load ≤ 50W	
MAINS CHARGE		
Battery type	Lead acid or lithium battery	
Max. charge current (configurable)	40A	120A
Charge voltage range	40 –60Vdc	
SOLAR CHARGE		
Max. PV open circuit voltage	300Vdc	
PV operate voltage range	120Vdc~300Vdc	
MPPT voltage range	90Vdc~260Vdc	
Battery voltage range	40Vdc~60Vdc	
Max. PV input power/current	4500W+4500W 27A+27A	4500W+4500W 22A+22A
Max. hybrid charge current (PV+AC)		
Max. hybrid charge current (configurable)	0-80A	0-150A
CERTIFICATION		
Safety certification	UL1741	
EMC certification level	FCC15 Class B	
Operate temperature range	-10° C to 55° C	
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)	428x280x110mm	540x350x120mm
Weight (kg)	7.8	18.5