

Overview

MP series, a multifunctional low-frequency split-phase output hybrid inverter, that supports utility charging, oil generator charging, solar charging, dual voltage output, power feedback and energy management. It supports parallel operation for multiple units in single phase or three phase. The inverter with power of 3KW and 5KW perfectly suits residential applications, schools, health facilities, government buildings, cottages, and areas where the electricity is unstable.

Features

- IP65 protection degree
- Applicable for pure on grid/off grid/ backup usage/ self-consumption situation
- Pure sine wave output, with dual voltage (120/240V)
- Integrated UPS module, on/off grid seamless switching under 10ms
- Supports battery mode & non battery mode
- Supports low voltage (48V) lithium /lead-acid battery
- Adjustable charge/discharge currents
- Parallel operation in single-phase or three-phase for 6 units in standard application
- Comprehensive electronic protection guarantees safer and stable operation
- Historical data storage capacity: 25000 records
- Smart monitoring, optional WiFi/4G/Bluetooth remote monitoring



Model	MP3043-1020P65	MP5043-1020P65
Rated battery voltage	48VDC	
Battery work voltage range	42.4~64.0VDC	
Battery type	Lithium battery / Lead-acid battery	
Inverter output		
Continuous output power(@25°C)	3000W	5000W
5S Continuous output power (@25°C)	6000W	10000W
Rated output voltage	220VAC/230VAC/240VAC±5%; 110VAC/115VAC/120VAC±5%	
Rated output frequency	50Hz/60Hz±0.5Hz	
Output wave	Pure Sine Wave	
Load power factor	0.2~1(VA ≤ continuous output power)	
THD	≤ 5%	
Max. inverter efficiency	> 93.6%	
Full load efficiency	> 90%	
Utility transfer time	≤10mS	
Inverter to bypass transfer time	≤1mS	
Utility input		
Utility work voltage range	170VAC~285VAC	
Utility input frequency range	40Hz~70Hz	
Rated utility input power (Charging+Bypass)	4500W(@240VAC)	7500W(@240VAC)
Utility charging power factor	≈1	
Max. utility charging current	50A	80A
Solar charging		
Max. PV open circuit voltage	195V	
MPPT working voltage	(Battery voltage+10V)~145V	
Max. PV charging power	5000W	
Max. PV charging current	100A	
MPPT tracking efficiency	≥99.5%	
Charging conversion efficiency	>95%	
Temperature compensate coefficient	-3mV/°C/2V (Default)	
Inverter/charger charging current		
Max. inverter/charger charging current	100A	
Others		
No-load consumption	≤ 48V/ 0.7A	
Static consumption	≤ 48V/ 0.15A	
Enclosure	IP65	
Relative humidity	< 95% (N.C.)	
Altitude	4000m (>2000m Derating)	
Work temperature	20°C~+55°C (>25°C Derating)	
Storage temperature	-40°C~60°C	
Mechanical parameters		
Dimension (Length x Width x Height)	848mm×435mm×249mm	935mm×475mm×255mm
Mounting size (Length x Width)	260mm×160mm	260mm×160mm
Mounting hole size	Φ10mm	Φ10mm
Net weight	52.0kg	66.0kg