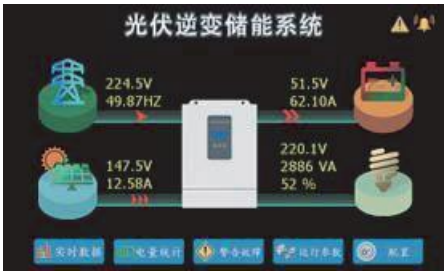
Photovoltaic storage inverters

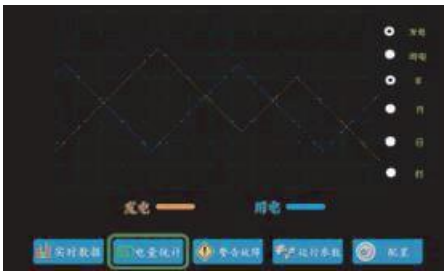
model	M4812P
Power	1.2KW

Functional Description

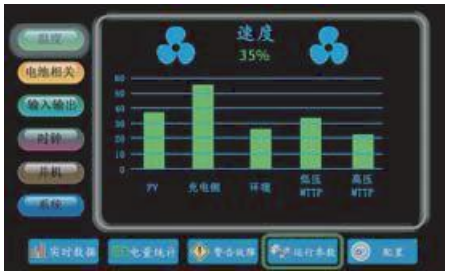
- Distinguish traditional buttons, using high-definition touch capacitive screen.
- Industrial UI design, interface display is more intuitive, more convenient operation.
- Support management upgrading and customization of user's special needs.



- New management software system, more intuitive display, more convenient operation .
- Industrial UI design, friendly interactive interface, higher readability.
- Comprehensive real-time data monitoring and collection.
- Advanced MPPT technology, optical storage and charging in one.



- Efficient power generation and power management control platform
- The system automatically utilizes peaks and valleys to regulate charging and discharging to save electricity costs.
- Maximum support current of 25A and voltage of 450V for single circuit PV.
- Perfectly adapted to high-power photovoltaic modules



- Working environment monitoring at the right time, multiple protection
- High-quality sine wave output with SPWM regulation technology.
- Automatic air-cooling adjustment, more stable operation, and the operation status can be seen at a glance.
- Supports User-defined policies, logical event-driven.

- Unique lithium BatteryBMS management technology
- Support lithium BatteryBMS bi-directional communication
- Multiple Battery Types, Maximum Charging Current 100A
- Support management upgrade, compatible with more BMS

Model	M48105P	settable
inverter output		
Rated output power	1.2KW	
Max. peak power	2.4KW	
Rated output voltage	L+N+PE 208/220/230/240Vac	Y
Carrying motor capacity	1HP	
rated power	50/60HZ	
Output Waveform	pure sine wave	
switching time	10ms(typical value)	
Number of parallel machines	not support	
Battery		
Battery type	lead-acid battery/lithium ion battery/User-defined	Y
Rated Battery Voltage	12V	
Voltage range	10-16Vdc	Y
Maximum photovoltaic charging current	60A	Y
Maximum mains/generator charging current	60A	Y
Maximum hybrid charging current	80A	Y
Photovoltaic input		
Number of MPPT paths	1	
Maximum Input Power	1000W	
Maximum Input Current	14A	
Maximum Open Circuit Voltage	125Vdc	
MPPT working Voltage range	20-100Vdc	
Mains/generator input		
Input Voltage range	UPS：170-264Vac; APL：90-280Vac	Y
Input frequency range	50/60HZ	
Bypass overload current	10A	
Efficiency Efficiency		
MPPT Tracking Efficiency	99.5%	
Battery inverter efficiency	92%	
Basic parameters		
Size	430*314*118mm	
Weight	7kg	
Protection level	IP21	
environmental temperature	-20-55℃， ＞40℃ degraded to80%,	
Humidity range	20%-95% non-condensing	
Cooling method	Built-in fan	
Warranty Time	2 years	
communication		
built-in interface	RS485/CAN/USB/dry contact	