

All-in-one Solar Charge Inverter

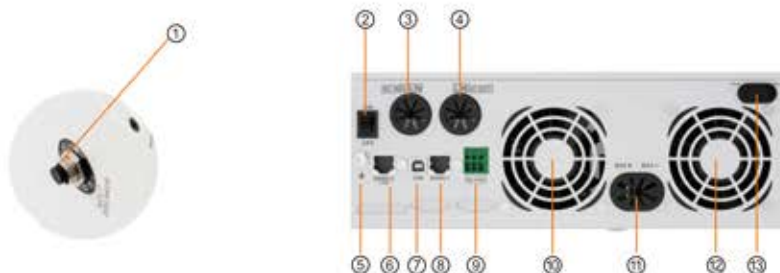
AP48-H Higher PV Voltage Series(Max.Voc : 500V ; Rated input voltage : 220/230V)



Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
- Intelligent programming: the priority of the output from different energy sources can be set
- High energy efficiency: up to 99.9% MPPT capture efficiency
- Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage
- Power saving: power saving mode automatically reduces power consumption at zero-load
- Efficient heat dissipation: via intelligent adjustable speed fans
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.
- under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics



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| ① Overload Protector | ⑩ Dry Contact Port |
| ② ON/OFF Rocker Switch | ⑪ Cooling Fan |
| ③ AC Input Port | ⑫ Battery Port |
| ④ AC Output Port | ⑬ Cooling Fan |
| ⑤ Grounding Screw Hole | ⑭ PV Port |
| ⑥ RS485-2 Communication Port (For BMS) | ⑮ Light Touch Button |
| ⑦ USB Communication Port | ⑯ Indicator Light |
| ⑧ RS485-1 Communication Port | ⑰ LCD Screen |



Parameters

Model	AP-48H3K-500/60	AP-48H5K-500/80	Adjustable
Battery Input			
Battery type	Sealed, Flood, GEL, LFP, Ternary		√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)		
Hybrid Charging Maximum Charging Current	80A		√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)		√
Solar Input			
Maximum PV Open-circuit Voltage	500vdc		
PV Working Voltage Range	120-500Vdc		
MPPT Voltage Range	120-450Vdc		
Maximum PV Input Current	18A		
Maximum PV Input Power	4400W	5200W	
Maximum PV Charging Current	60A	80A	√
AC Input(generator/grid)			
Mains Maximum Charging Current	60A		√
Rated Input Voltage	220/230Vac		
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac)±2% APL Generator Mode : (90Vac-280Vac)±2%		√
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current	40A		
AC Output			
Output Voltage Waveform	Pure Sine Wave		
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)		√
Rated Output Power (VA)	3000 (2600/2700/2850/3000)	5000 (4350/4500/4800/5000)	
Rated Output Power(W)	3000 (2600/2700/2850/3000)	5000 (4350/4500/4800/5000)	
Peak Power	6000VA	10000VA	
On-load Motor Capacity	2HP	4HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz		√
Maximum Efficiency	>90%		
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)		
General			
Certificate	CE(IEC 62109-1)	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)	
EMC Certification Level	EN61000		
Working Temperature Range	-15°C ~ 55°C		
Storage Temperature Range	-25°C ~ 60°C		
Humidity Range	5% to 95%(Conformal Coating Protection)		
Dimensions	426mm*322mm*126mm		
Weight (KG)	10.5		



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