All-in-one Solar Charge Inverter

HF2430S80-H（PV：500V；AC：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

①	AC Input Port	⑨	Cooling Fan
②	AC Output Port	⑩	Battery Port
③	CAN Communication Port	⑪	Cooling Fan
④	USB Communication Port	⑫	ON/OFF Rocker Switch
⑤	RS485 Communication Port	⑬	PV Input Port
⑥	Dry Contact Port	⑭	Light Touch Button
⑦	Grounding Screw Hole	⑮	Indicator Light
⑧	Overload Protector	⑯	LCD Screen

Parameters

Model	AP-24H3K-500/80	Adjustable
Battery Input		
Battery type	Sealed、FLood、GEL、LFP、Ternary	√
Rated Battery Input Voltage	24V (Minimum Startup Voltage 22V)	
Hybrid Charging Maximum Charging Current	80A	√
Battery Voltage Range	20Vdc~33Vdc ± 0.3Vdc(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	13A	
Maximum PV Input Power	4000W	
Maximum PV Charging Current	80A	√
AC Input（generator/grid）		
Mains Maximum Charging Current	80A	√
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	30A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)	√
Rated Output Power (VA)	3300 (2850/2950/3150/3000)	
Rated Output Power(W)	3300 (2850/2950/3150/3000)	
Peak Power	6000VA	
On-load Motor Capacity	2HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode：≤25W (Manual Setup)	
General		
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-10°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	378mm*280mm*103mm	
Weight (KG)	7.4	

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