High Frequency Inverter
YF-FS-HP Series

aurora
OPTOELECTRONIC



Features

- Pure Sine Wave Output
- BMS Function For Lithium Battery
- External WIFI, Supervise At Any Time
- Intelligent Power Supply Mode
- No EMC Filtering, Cost-effective Solution Design
- Lithium Battery Auto-restart Function

Datasheet

Model	YF-FS-HP 1612-D	YF-FS-HP 3024-D	YF-FS-HP 4224-D	YF-FS-HP 6248-D	YF-FS-HP 11048-D
Rated Input Voltage	220/230/240VAC				
Voltage Range	90-280VAC±3V(Normal mode) 170-280VAC±3V(UPS mode)				
Frequency Range	50Hz/60Hz(Adaptive)				
Output					
Battery Inverter	1600W	3000W	4200W	6200W	11000W
PV Inverter	1600W	3000W	5000W	6500W	12000W
Peak Power	3200VA	6000VA	8000VA	12400VA	22000VA
Output Voltage	220/230/240VAC±5%				
Output Frequency	50/60Hz±0.1%				
Waveform	Pure Sine Wave				
Switching Time (Adjustable)	Computer equipment 10ms, home appliances 20ms				
Overload Capacity	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load				
Grid-connected Operation					
Output Voltage	No grid connection		220/230/240VAC		
Grid Feeding Voltage Range			170-265VAC		
Grid Feeding Frequency Range			49-51±1Hz/59-61±1Hz		
Rated Output Current			17.4A	36.9A	47.8A
Power Factor Range			>0.99		
Max. Conversion Efficiency(DC/AC)			98%		
Battery					
Rated Voltage	12VDC	24VDC	24VDC	48VDC	48VDC
Constant Charging Voltage (Adjustable)	14.1VDC	28.2VDC	28.2VDC	56.4VDC	56.4VDC
Float Charging Voltage (Adjustable)	13.5VDC	27VDC	27VDC	54VDC	54VDC
PV Charger					
PV Charging Method	MPPT	MPPT	MPPT	MPPT	Dual MPPT
Max. PV Input Power	2000W	3000W	5000W	6200W	2*5000W
MPPT Input Voltage Range	40~500VDC	40~500VDC	60~500VDC	60~500VDC	90~500VDC
Optimal VMP Operating Range	300~400VDC	300~400VDC	300~400VDC	300~400VDC	300~400VDC
Max. PV Input Voltage	500VDC	500VDC	500VDC	500VDC	500VDC
Max. PV Input Current	13A	13A	18A	18A	18A/18A
Max. PV Charging Current	100A	100A	120A	120A	150A
Max. Mains Charging Current	60A	60A	100A	100A	150A
Max. Charging Current	100A	100A	120A	120A	150A
Display					
LCD Interface	Can display operation mode/load/input/output, etc.				
Interface					
RS232	Baud rate 2400				
Expansion Slot Communication Interface	Lithium battery BMS communication card, WIFI card, dry contact card, etc.				
Parallel Interface	No parallel function				
Ambient Parameters					
Operating Ambient Temperature	-10°C~+50°C				
Operating Environment Humidity	20%~95%(No condensation)				
Storage Temperature	-15°C~+60°C				
Noise	<45dB				
Physical Parameters					
Product Dimension(mm)	403*304*114		430*330*138		601*360*163
Package Dimension(mm)	480*375*205		512*420*207		735*472*272
Net Weight(kg)	5.76kg	6.48kg	8.35kg	9.38kg	18.18kg
Gross Weight(kg)	6.68kg	7.68kg	9.71kg	10.76kg	22.46kg
Standards And Certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1				

***Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.**

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