



Single Phase Hybrid Inverter

- ▶ Integrated smart APP can remotely diagnose and update
- ▶ One key to reactive the LiFePO4 battery pack/pre-charge the input stage
- ▶ Multiple operating modes, on-grid off-grid and UPS MPPT control
- ▶ Compatible with almost all 24V/48V LiFePO4 battery pack and lead-acid battery
- ▶ Frequency droop control,max 6pcs parallel. DC coupled and AC coupled to retrofit existing solar system

Model	FH-3600S	FH-4600S	FH-5000S
PV Input (DC)			
Max. DC input power	5200W	6600W	7000W
Max PV input voltage		500V	
Starting voltage		150V	
PV input voltage range		150V ~ 500V	
MPPT voltage range		120V ~ 430V	
MPPT quantity		2	
Max string quantity to each MPPT group		1	
Max input current		15A/15A	
Output/Input(AC)			
Rating output power	3600W	4600W	5000W
Maximum output apparent power	3960VA	5000VA	5500VA
Max output current	17.2A	22A	23.9A
Rating grid voltage		220V/230V/240V	
Rating grid frequency		50/60Hz autotracking	
Total current waveform distortion rate		<3% (Rating power)	
DC component		<0.5%In	
Power factor range		>0.99 @ Full power (Adjustable range 0.8 lead ~ 0.8 lag)	
Off grid output			
Max output power	3600W	4500W	4500W
Rating output voltage		230V	
Rating output frequency		50Hz(60Hz Optional)	
UPS switching time		<20 ms	
Total harmonic distortion (linear load)		<3%	
Overload capacity		110%,30S / 120%,10S / 150% 80ms	
Battery			
Voltage range		41.6V ~ 58.5V	
Max charging current	80A (PV&AC Hybrid charging)	95A (PV&AC Hybrid charging)	95A (PV&AC Hybrid charging)
Max discharging current	85A	100A	100A
Battery type		Lithium battery / lead-acid battery	
Communication interface		RS485/Can	
Efficiency			
Max efficiency		98%	
European efficiency		97%	
Max discharge efficiency		95%	
MPPT efficiency		99.9%	
System			
IP inclosure		IP65	
Noise		<35dB	
Ambient temperature		-25°C ~ 60°C	
Cooling mode		Natural cooling	
Ambient humidity		0-95% non-condensing	
Altitude		No derating below 2000m	
Shutdown self power consumption		<3W	
Display		LCD	
Communication		RS485/USB/CAN/Wifi(GPRS optional)	
Certificate	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-1-3, VDE-AR-N4105, EN50549, G99, CEI-021, AS/NZS4777.2, RD1699(UNE 206006 1N:2011/UNE 206007-1 IN:2013/UNE 217002:2020)		
Warranty		5 Years (Standard)	
Mechanical			
Size L*W*H		580mm*350mm*230mm	
Install method		Wall mounted	
Weight		23.5Kg	