

# FLYFINE



## Single Phase Hybrid Inverter

- ▶ Integrated smart APP, can remotely diagnose and update
- ▶ Controlled by built-in DSP and adopt advanced SPWM technology
- ▶ Multiple operating modes, on-grid off-grid and UPS MPPT control
- ▶ Suitable for customizing various solar energy storage system
- ▶ Compatible with almost all 48V LiFePO4 or Lead-acid battery pack
- ▶ Droop control max 6pcs in parallel

Model	FH-8000S
<b>Battery Data</b>	
Battery Type	Lithium / Lead-Acid
Nominal Battery Voltage (V)	51.2
Battery Voltage Range (V)	41.6 ~ 58.5
Max. Continuous Charging Current (A)	190
Max. Continuous Discharging Current (A)	190
Max. Charge Power (W)	9200
Max Discharge Power (W)	9200
<b>PV String Input Data</b>	
Max. Input Power (W)	10400
Max. Input Voltage (V)	500
MPPT Operating Voltage Range (V)	120 ~ 430
Start-up Voltage (V)	150
Nominal Input Voltage (V)	360
Max. Input Current per MPPT (A)	22
Max. Short Circuit Current per MPPT (A)	30
Number of MPPT Trackers	2
Number of Strings per MPPT	2
<b>AC Output Data (on-grid)</b>	
Nominal Apparent Power Output to Utility Grid (W)	8000
Max. Apparent Power Output to Utility Grid (VA)	8000
Max. Apparent Power from Utility Grid (VA)	8000
Nominal Output Voltage (V)	230/120
Nominal AC Grid Frequency (Hz)	50/60
Max. AC Current Output to Utility Grid (A)	38.5
Max. AC Current From Utility Grid (A)	38.5
Type of Infeed	Split-phase
Max. Total Harmonic Distortion	<3%
Power Factor	~ 0.99 (Adjustable from 0.8 leading to 0.8 lagging)
Switch Time	<10 ms
<b>AC Output Data(backup)</b>	
Back-up Nominal Apparent Power (W)	8000
Max. Output Apparent Power (VA)	8000
Max. Output Current (A)	38.5
Nominal Output Voltage (V)	230/120
Nominal Output Frequency (Hz)	50/60
Output THDv (@Linear Load)	<3%
<b>Conversion Efficiency</b>	
Max. Efficiency	98%
EU Efficiency	97%
Max. Battery to AC Efficiency	95%
MPPT Efficiency	99.9%
<b>Protection</b>	
PV Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC Switch	Integrated
Remote Shutdown	Integrated
<b>Environmental/Ambient Conditions</b>	
Operating Temperature Range (°C)	-25 ~ +60
Excess Temperature Behaviour	Continuous power reduction (derating)
Relative Humidity	0 to 95 % (climate class 4K6), non-condensing
Installation Altitude above Sea Level	up to 2000 m above sea level
Installation Location	Inside & Outside
Cooling Method	Free Convection
<b>Mechanical Data</b>	
Dimensions ( W * H * D )	480*550*250mm
Weight (kg)	32
Protection Type (in accordance with IEC 60529)	IP65
Installation Type	Wall Installation with Wall Bracket
<b>Communications</b>	
Communication with BMS	CAN
Communication with Meter	RS485
Communication with Portal	WiFi
Display	LCD, WLAN + APP
Monitoring Settings	Integrated data logger
<b>Other Data</b>	
Topology	Transformerless
Self-consumption at Night (W)	<10
<b>Reliability</b>	
Manufacturer's Warranty	5 Years