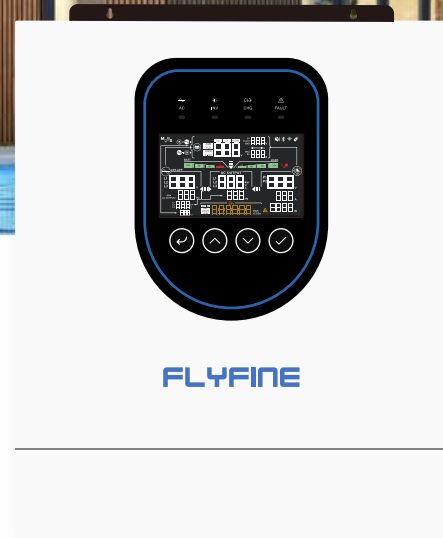




Single Phase 12kW Hybrid Storage Inverter



Built-in 160A
Solar Charger



Wide PV Input Voltage
Range 60-500V



45A MAX
PV Input



DUAL
Dual AC Out



Dual MPPTs
Input



Support Lithium/
Lead-acid Battery



Lithium Battery
Activation



Wi-Fi
Monitoring (Optional)

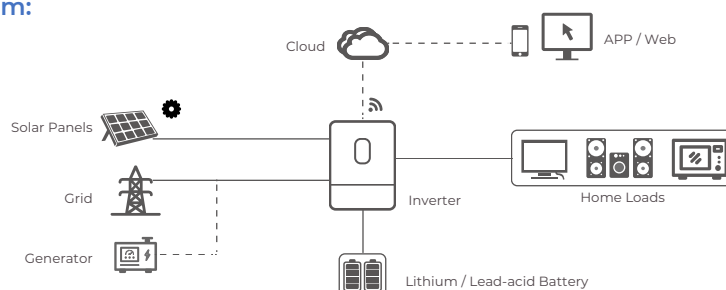


5 Inch
LCD Display



Feed-in
to Grid

System Diagram:



Model	FH-12000S-48V
AC Input	
Rated Input Voltage (VAC)	220/230/240; L+N+PE
Voltage Range (VAC)	90-280±3 (normal mode); 170-280±3 (UPS mode)
Frequency (Hz)	50/60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-125% load, 10s@>125% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	Dual MPPTs
Max. PV Input Current / Power	Using One MPPT: 27A/9KW; Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total
MPPT Range @Operating Voltage (VDC)	60-450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160A
Max. AC Charge Current (A)	160A
Max. Charge Current (PV + AC) (A)	160A
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485/ RS232 / CAN
Monitoring	WiFi (optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10°C~60°C
Relative Humidity	5%~ 95%(Non- condensing)
Storage Temperature	-15°C~60°C
Net Weight (kg)	14
Dimensions (W*H*D)	525*435*138mm
Max. Operating Altitude	4000m (Derating above 1000m)

* The AC voltage and frequency range can differ according to the grid standards of each country.

* Please note that all specifications are subject to change without prior notice.

