

# HF SERIES

## ON&OFF GRID HYBRID SOLAR INVERTER

Pure sine wave

WiFi

Two-way energy storage design

Configurable working mode

Support working without battery

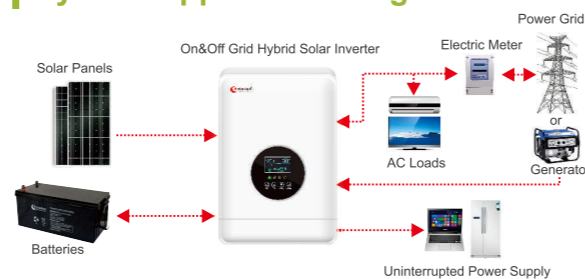
RS485



### Features

- Adopt high-frequency design, high power density, small size, high efficiency
- Grid-tie Inverter, photovoltaic and grid power can charge the battery at the same time.
- Battery voltage parameters adjustable, suitable for different types of battery.
- The battery charging current can be set from 0 to 100A.
- With the output priority setting function of PV, battery or grid.
- Three working modes adjustable: AC first, PV first, battery first.
- Communication with Lithium battery BMS.
- Output voltage/ frequency adjustable function, adapt to different grid.
- Multi-protection function(overload,over temperature,short circuit protection and so on).

### System Application Diagram



### Product Display

Household

Industrial and commercial energy storage

Airport/high-speed rail station

Thermal power station/nuclear power station

Agricultural Irrigation

Farm use



### Technical Parameters

Model: HF	50248
<b>AC Output (ON GRID)</b>	
Rated Power	5000W
Rated Current	22.7A/21.7A/20.8A
AC Output Voltage/Frequency	220VAC/230VAC/240VAC 50HZ/60HZ
Grid Voltage Range	187Vac~264Vac(according to local standards)
Power Factor	1
<b>AC Output (OFF GRID)</b>	
<b>AC output</b>	
Rated Power	5000W
AC Output Voltage/Frequency	220VAC/230VAC/240VAC 50HZ/60HZ
<b>AC Input</b>	
Rated Input Voltage	220VAC/230VAC/240VAC
Input Voltage Range	170VAC~280VAC / 120VAC~280VAC
Input Frequency	43Hz~53Hz ( 50Hz ) , 53Hz~63Hz ( 60Hz )
<b>PV Input</b>	
Max PV Input Voltage(Voc) (at the lowest temperature)	500VDC
MPPT Tracking Voltage Range	120VDC~450VDC
Maximum PV Input Power/ Tracking Channels	6000W/1 Routed
Max PV Input Current	25A
<b>Battery</b>	
Battery Type	Lead-acid Battery / Lithium-ion Battery / Custom Battery
Standard Battery Voltage	48VDC
Maximum PV Charging Current	100A
Maximum AC Charging Current	80A
Maximum Charging Current (AC+PV)	100A
<b>Other</b>	
Protection	Battery undervoltage protection/Battery overvoltage protection/Overload power protection/ Inverter output short circuit protection/Temperature protection
Conversion Efficiency(INV model)	95% ( peak value )
Communication(optional)	RS485, mobile APP (WIFI monitoring or GPRS monitoring) Optional
Protection Degree	IP20
Cooling Method	Cooling fan in intelligent control
Display	LCD+LED
Operating Temperature	-15°C~40°C
Relative Humidity	0%~95%,no condensation
Altitude	2000m(more than derating)
<b>Dimensions and Weight</b>	
Product Size (L*W*Hmm)	460*320*110
PackageSize(L*W*Hmm)	540*385*175
N.W.(kg)	10
G.W.(kg)	11

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.