

6000VA/10kVA UPS

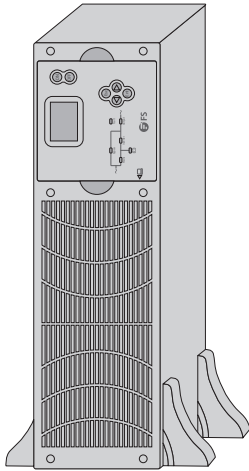
**208V/230V ON-LINE UPS**

**POWER SUPPLY**

Quick Start Guide **V1.0**

# Introduction

Thank you for choosing FS 6000VA-10kVA On-Line UPS Power Supply. This guide is designed to familiarize you with the layout of the UPS and describe how to install the UPS in your application. Uninterruptible Power Supply (UPS) protects connected equipment from power problems, including power sags, power surges, brownouts, line noise, high voltage spikes, switching transients, harmonic distortion and so on. It also provides backup power when the input power source or mains power fails.

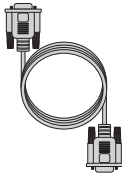


6000VA-10kVA On-Line UPS Power Supply

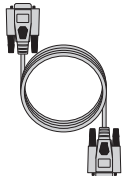
# Accessories



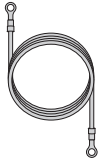
USB Cable x1



RS232 Cable x1



Parallel Cable x1



Grounding Cable x1



EPO Connector x1



Terminal Block Sheath x2



External Battery Connector x1



Tower Plastic Base x4



Base Extended Board x4



Battery Connecting Piece x2



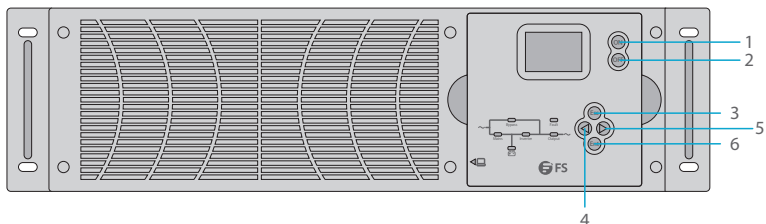
Contact of Battery  
Connector x6

## Site Environment

1. Even no connection with utility power, high voltage may still exist at UPS outlets.
2. All repairs and service should be performed by **AUTHORIZED SERVICE PERSONNEL ONLY**. There are **NO USER SERVICEABLE PARTS** inside the UPS.
3. Don't disassemble the UPS cover, or there may be an electric shock.
4. To reduce the risk of fire or electric shock, install the UPS in a temperature and humidity controlled (temperature 0 to 40°C, maximum relative humidity 95%) indoor environment, free of conductive contaminants. Keep ventilations in good conditions.
5. The highest altitude that UPS may work normally with full load is 1500 meters. The load capacity will decrease by 5% for each 500m increase in altitude when this UPS is installed in place whose altitude is higher than 1500 meters.
6. To reduce the risk of fire, connect only to a circuit provided with branch circuit overcurrent protection in accordance with the local safety instructions.
7. If the UPS requires any type of transportation, verify that the UPS is unplugged and turned off.

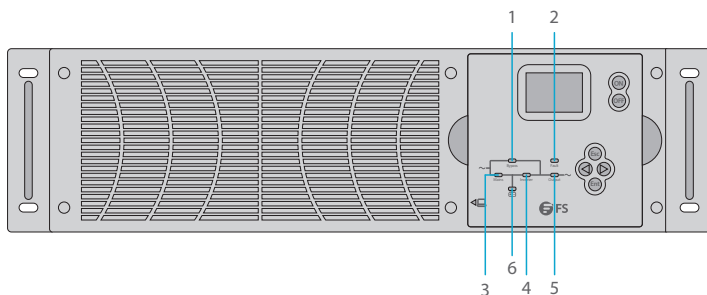
# Hardware Overview

## Front Panel Buttons



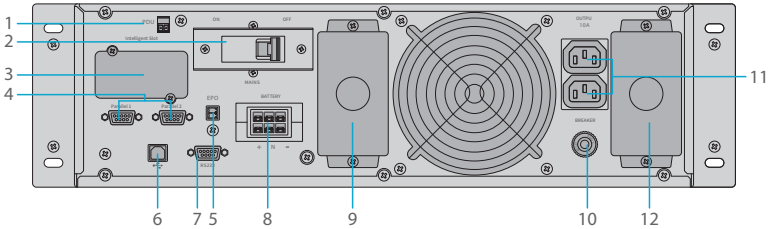
No	Function	Description
1	ON	Press and hold this button for a second to turn on the inverter supply.
2	OFF	When the utility power is connected and normal: Press and hold this button for a second to turn off the inverter supply, and the UPS turns to bypass supply if the bypass is normal.
		When there is without utility power and UPS is on battery mode: Press and hold this button for a second to turn off the UPS.
3	Esc	To return to the previous menu.
4	Scroll Up	To finish switching, cycling, page turning and parameter setting among the same-level menu items.
5	Scroll Down	
6	Ent	To confirm and open the menu.

## Front Panel LEDs



No	Function	Description
1	Bypass	It indicates the bypass supply when light is on, and indicates the input overload when light flashes.
2	Fault	It indicates there is a fault when light is on.
3	Mains	It indicates the normal utility power when light is on, and indicates the overvoltage when light flashes.
4	Inverter	It indicates the inverter supply when light is on, and indicates the overload when light flashes.
5	Output	It indicates there is an output when light is on.
6	Battery	It indicates the battery supply when light is on, and indicates the low voltage of battery or no battery when light flashes.

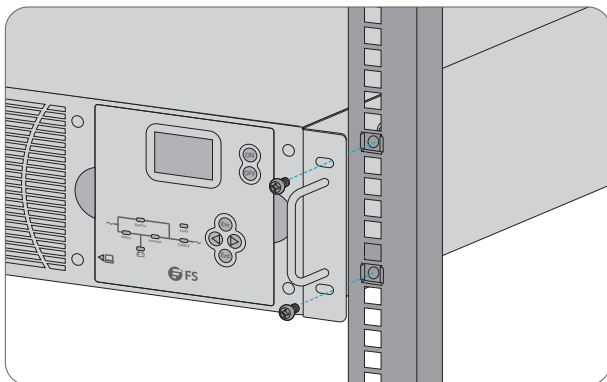
## Back Panel Ports



No	Ports	Description
1	PDU Port	Connect to a PDU strip for communicating.
2	Input Breaker	Control input power to UPS.
3	Intelligent Slot	Support SNMP card (optional) for UPS controlling and monitoring. Remove the cover over the slot for access.
4	Parallel Ports	Connect to another UPS for communication in parallel.
5	EPO Port	Enable emergency inverter shutdown.
6	USB Port	Connect to computer for monitoring via a USB cable.
7	RS232 Port	Connect to computer for monitoring via an RS232 cable.
8	External Battery Socket	Connect to the external batteries.
9	Input Hardwire Terminal Block	Connect to utility power. Remove the cover over the block for access.
10	Output Breaker	Control output power from the outlets.
11	C13 Outlets	Connect to equipment with C14 plugs.
12	Output Hardwire Terminal Block	Connect to equipment. Remove the cover over the block for access.

# Installing

## Rack Mounting

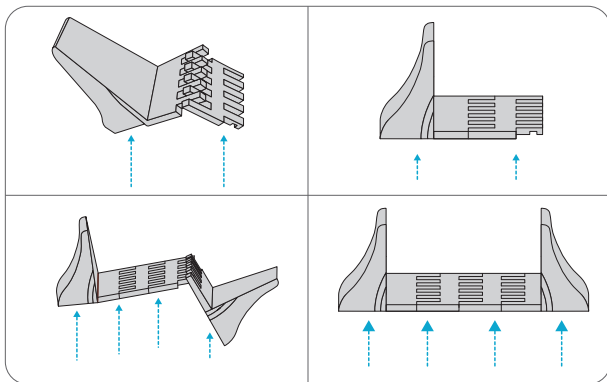


Attach the UPS to the rack using screws and cage nuts, which can match the rack.

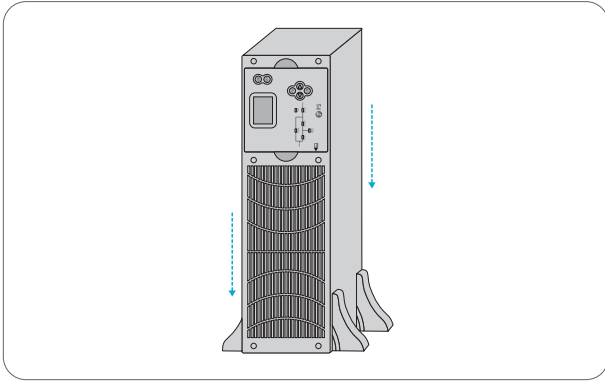


**NOTE:** UPS is heavy. Please install the rack shelf or rails first to support the UPS above.

## Tower Mounting

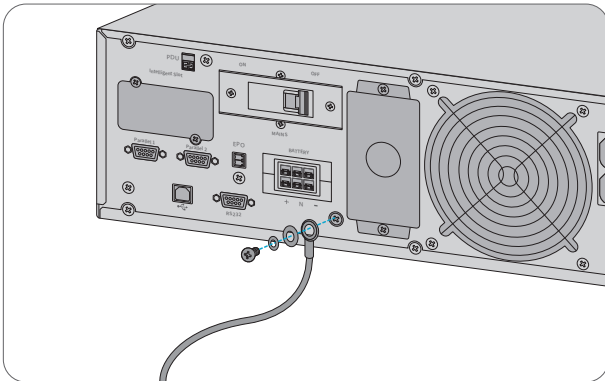


1. Add base extended boards between the brackets to get the wider size.
2. Intercross extended boards and plastic base brackets, then flatten them.



3. Place the UPS in the middle of base brackets.

## Grounding the UPS



1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the UPS is mounted.
2. Secure the grounding lug to the grounding point on the UPS back panel with the washers and screws.



**NOTE:** High leakage current. Earth connection essential before connecting supply.



## Connecting to Power

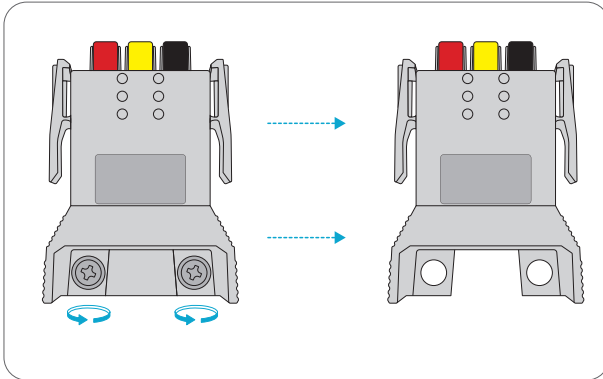
### Choosing Appropriate Power Cord

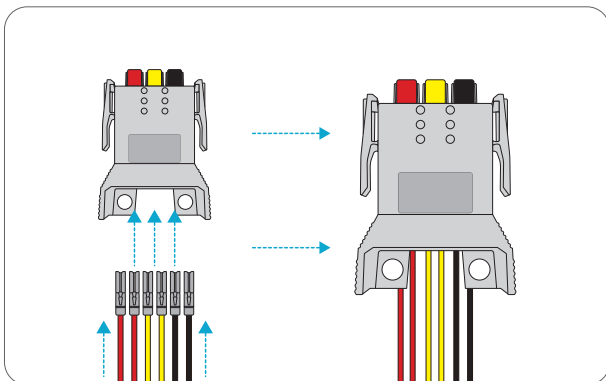
For future expansion purpose, it is economical to install power cable according to the full rating capacity initially. The diameter of cable is shown as below.

UPS Capacity	Cable Dimension			
	AC Input (mm <sup>2</sup> )	AC Output (mm <sup>2</sup> )	DC Input (mm <sup>2</sup> )	Grounding (mm <sup>2</sup> )
6000VA	6	6	6	6
10kVA	10	10	10	10

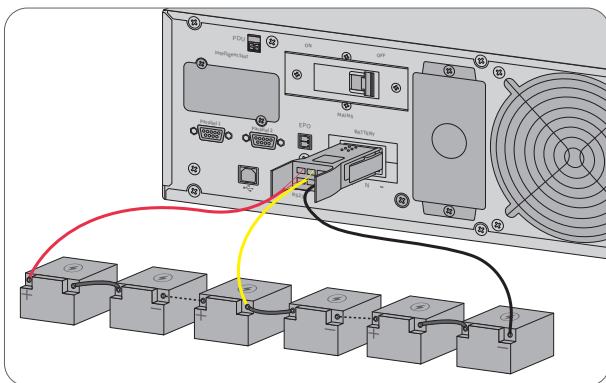
### Connecting to External Batteries

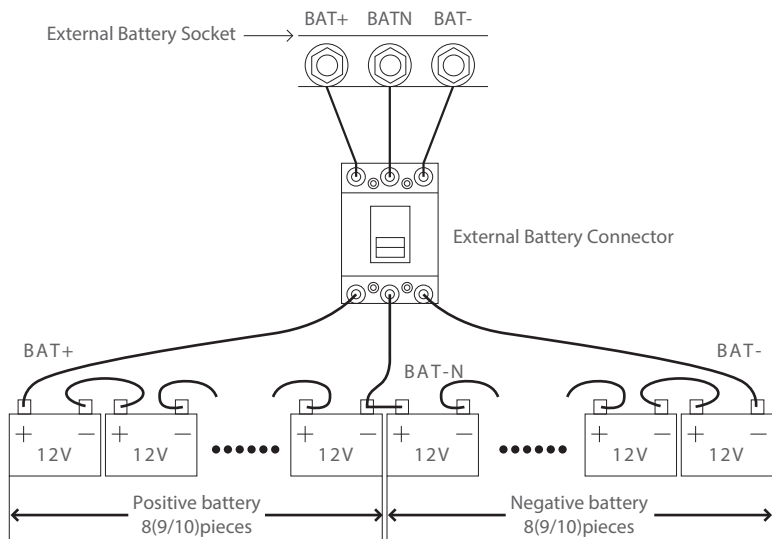
1. Remove the screws from the end of the external battery connector, then crimp the external battery cables (not included in the product) with contacts of battery connector.





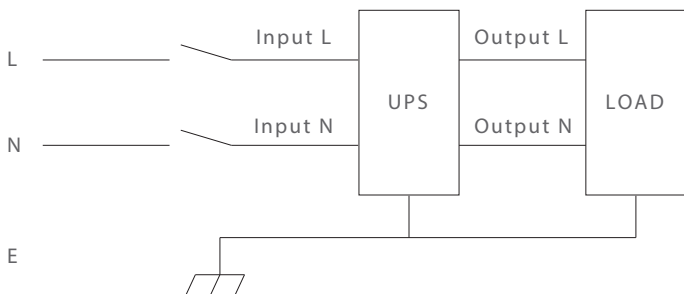
2. Connect the external battery cables to the external batteries (not included in the product), then the other end of external battery connector to the external battery socket of UPS to get the backup power. The connection is shown as below.





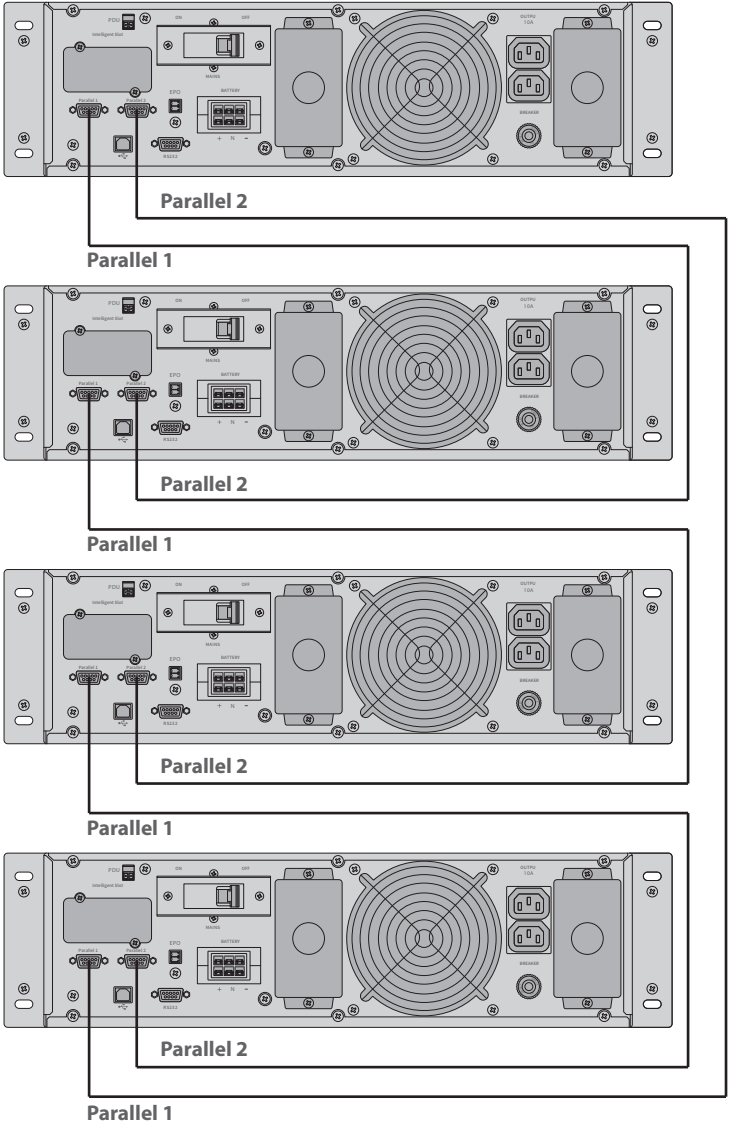
## Connecting to Utility Power and Equipment

Get the utility power through input hardwire terminal block and supply power to the equipment through output hardwire terminal block. The wiring is shown as below.



# UPS Parallel Installation

6000VA-10kVA UPS can support parallel installation via parallel cables.





- NOTE:** 1. Make sure the N/L lines are correct, and grounding is well connected.  
2. Make sure each UPS input breaker is in "off" position and there is no output from each UPS connected.  
3. All UPS must be of the same rating and be connected to the same bypass source.  
4. The bypass and the main input sources must be referenced to the same neutral potential.  
5. The outputs of all the UPS must be connected to a common output bus.  
6. The length and specification of power cables including the bypass input cables and the UPS output cables should be the same. This facilitates load sharing when operating in bypass mode.

## Online Resources

- Download <https://www.fs.com/download.html>
- Help Center [https://www.fs.com/service/help\\_center.html](https://www.fs.com/service/help_center.html)
- Contact Us [https://www.fs.com/contact\\_us.html](https://www.fs.com/contact_us.html)

## Product Warranty

FS ensures our customers that any damage or faulty items due to our workmanship, we will offer an exchange within 30 Days from the day you receive your goods. This excludes any custom made items or tailored solutions.



Warranty: FS UPS enjoys 1 year limited warranty against defect in materials or workmanship. For more details about warranty, please check at <https://www.fs.com/policies/warranty.html>



Return: If you want to return item(s), information on how to return can be found at [https://www.fs.com/policies/day\\_return\\_policy.html](https://www.fs.com/policies/day_return_policy.html)

Q.C. PASSED