



# User Guide

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## ION F10

Power Backup 850VA/490W



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# Important Safety Instruction

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This manual contains important instructions that should be followed during installation and maintenance of the ION F10 UPS and batteries. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate.

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The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. DO NOT plug the UPS into an outlet that is not grounded. If you need to de-energize this equipment, turn off and unplug the UPS.

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The battery can energize hazardous live parts inside even when the AC input power is disconnected.

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To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

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To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside.

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To avoid electrical shock, turn off the unit and unplug it from the AC power source before installing a computer component.

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Do not use with or near aquariums! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine to short out.

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Do not use with laser printers! The power demands of laser printers are too large for a UPS.

# Installing your UPS system

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## UNPACKING

The box should contain the following:

UPS Unit  
User Manual

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## OVERVIEW

The ION F10 UPS ensures consistent power to your computer system and its included software will automatically save your open files and shutdown your computer system during a utility power loss.

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## HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

1. Make sure that the total Volt-Amp (VA) requirements of your computer, monitor, and peripheral equipment does not exceed rated capacity of 850VA/490 watts.
2. Ensure that the equipment plugged into the battery power-supplied/surge outlets does not exceed the UPS unit's rated capacity. If the rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down or the circuit breaker to trip.

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## HARDWARE INSTALLATION GUIDE

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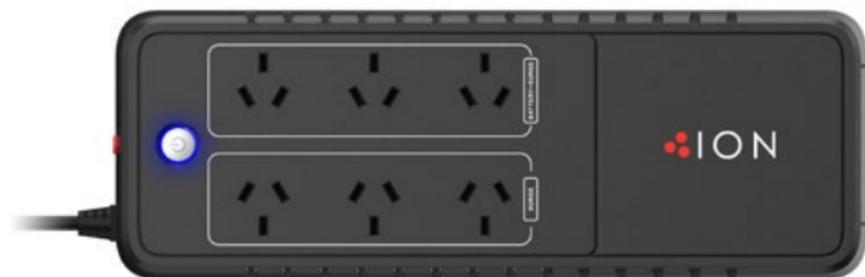
1. Your new ION F10 UPS may be used immediately upon receipt. However, recharging the battery for at least 8 hours is recommended to ensure that the battery's maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in both the on and off position.
2. With the ION F10 UPS unit off and unplugged, connect the computer, monitor, and any externally powered data storage device (Zip drive, Jazz drive, Tape drive, etc.) into the battery power supplied outlets. Do not plug a laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into the UPS. The power demands of these devices will overload and possibly damage the unit.
3. Plug the ION F10 UPS in a 2 pole, 3 wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc.) Avoid using extension cords.
4. Depress the power switch to turn the unit on. The power on indicator light will illuminate and the unit will "beep".

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5. If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the UPS off and unplug at least one piece of equipment from the outlets. Wait 10 seconds. Make sure the circuit breaker is depressed and then turn the UPS on.
  6. Your UPS is equipped with an auto-charge feature. When the UPS is plugged into an AC outlet, the battery will automatically recharge.
  7. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
  8. To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.

# ION F10 850VA

## Basic Operation

### Description



ION F10 850VA  
Description

- 1. Power On/Off Switch.**  
Press the power switch to turn the UPS ON or OFF.
- 2. LED Indicator**  
The LED Indicator shows using AC, using battery, and fault. Refer to “LED Indicator” section for details.
- 3. Battery Backup & Surge Protected Outlets**  
Provide battery backup and surge protection. They ensure power is provided to connected equipment over a period of time during a power failure.
- 4. Surge Protected Outlets**  
Provide surge protection for attached equipment.



**5. Input power cord**

Connect to utility power.

**6. USB Communication Port**

This port allows connection and communication from the USB port on the computer to the UPS unit.

**7. Communication Protection Ports (RJ45&RJ11)**

Communication protection ports will protect any standard modem, fax, telephone line, or network cable.

**8. Input Circuit Breaker**

The Circuit Breaker provides optimal overload protection.

# Technical Specifications

MODEL	F10-850VA
<strong>OUTPUT</strong>	
Output Power Capacity	490W/850VA
Max Configurable Power	490W/850VA
Nominal Voltage (Batt.mode)	220-240Vac
Frequency (Batt.mode)	50/60±1% Hz
Waveform (Batt.mode)	Simulated Sinewave
THDv	≤ 3% @ linear load, ≤5%@non-linear load
Transfer Time	4ms typical
Overload Protection	Circuit breaker or inner firmware protection
<strong>INPUT</strong>	
Nominal Input Voltage	220-240Vac
Voltage Range	180-270Vac
Frequency	50/60Hz (Auto sensing)
<strong>INDICATORS</strong>	
Display	LED
Alarm	Batt. Mode, low battery, overload, fault, etc.
<strong>BATTERY</strong>	
Battery Voltage	12V
Battery Type	5.6AH
Total Battery Quantity	1
Recharge Time (to 90%)	8H
Charger Current	0.7A

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#### UPS PHYSICAL

Maximum Height	90mm
Maximum Width	110mm
Maximum Depth	309mm
Net Weight	3kg

#### COMMUNICATION

USB	Yes
RJ 11/45	Yes

#### MANAGEMENT

Auto Recharge	Yes
Auto Restart	Yes
Power Management Software	Yes

#### ENVIRONMENT

Operation Temperature	0-40°C
Operation Humidity	0-90% non-condensing

#### CONFORMANCE

Approvals	CE
Standard Warranty	2 Year Advanced Replacement

# LED Indicator

LED	ALARM	CONDITION
On	Off	Normal
Flash	Beep 1 time In Every 30 Seconds	Utility Failure - The UPS is providing battery power to outlets.
Flash	Beep 1 time In Every 2 Seconds	Utility Failure - The UPS is providing battery power. The rapid beeps indicate the battery will run out of power shortly.
On/Flash	Beep 1 time In Every 0.5 Second	Overload - Occurs when connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at least one piece of equipment from the UPS.

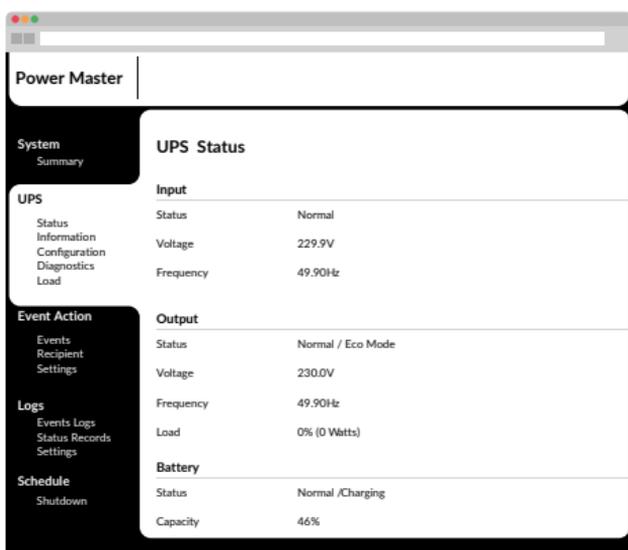
# Troubleshooting

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PROBLEM	POSSIBLE CAUSE	SOLUTION
The outlets stop providing power to equipment. Circuit breaker button is projecting from the side of the unit.	Circuit breaker has tripped due to an overload.	Turn the UPS off and unplug at least one piece of equipment. Reset the circuit breaker by depressing the button, and then turn the UPS on.
The UPS does not perform expected runtime.	Battery not fully charged.	Recharge the battery by leaving the UPS plugged in.
	Battery is slightly worn out.	Contact Technical Support.
The UPS will not turn on	The on/off switch is designed to prevent damage by rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.
	The battery is worn out.	Contact Technical Support.
	Mechanical problem	Contact Technical Support.

# Software Download

Power Master management software provides a user-friendly interface for your power systems. The graphic user-interface is intuitive and displays essential power information at a glance. Please follow procedure below to install the software.



## INSTALLATION PROCEDURE:

1. Download Power Master from the website:  
<http://www.powermonitor.software/>
2. Double-click the file and follow the installation steps. When your computer restarts, the Power Master software will appear as a blue icon located in the system tray.





