



# IMPROX IPS

## ImproX (IPS) Integrated Power Supply INSTALLATION MANUAL

### SPECIFICATIONS

#### Working Environment

**Power Supply (IPS900)**..... Designed to work in an indoor (dry) environment similar to IP20. The ImproX IPS is, therefore, not sealed against water.

#### Power

**NOTE:** *The Power Supply Combo includes a 3 A Switch Mode Power Supply which provides power for the (optional) internal unit and for charging the (optional) backup Battery. As the Power Supply Combo needs no more than 1 A, you may power extra devices using up to 2 A continuous current from the provided connector block. DO NOT exceed this 2 A limit on continuous current draw. Devices with a high in-rush current demand, such as certain maglocks and other electromechanical devices, can momentarily draw more than 3 A. The Power Supply then effectively shuts down as directed by its built in protection as exceeding the 3 A rating is considered a short-circuit. Overcome this by installing the recommended 12 V 7 Ahr Battery to help supplement the in-rush current such a device may draw on activation.*

#### Power Input

Input Voltage ..... 85 V AC to 265 V AC at 50/60 Hz.

#### Power Output

Output Voltage

Mains Power On ..... 13.8 V DC  $\pm$ 0.3 V DC.

Output Current ..... 2 A continuous (Power Output Terminals).

#### Battery

Battery Type..... 12 V Sealed Lead Acid, 7 Ahr (Max).

Approximate Size

Length ..... 151 mm (6 in) (Max).

Width ..... 65 mm (3 in) (Max).

Height ..... 99 mm (4 in) (Including the Terminals) (Max).

Charge Voltage ..... 13.8 V DC.

# INSTALLATION INFORMATION

## Accessories

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Find the following when unpacking the ImproX IPS:

- An ImproX Integrated Power Supply housed in a Black Mild Steel, powder-coated Cabinet. The Cabinet consists of a hinged Lid and a Base.
- A glass Fuse, Slow Blow, 3.15 A, 250 V (5 mm x 20 mm).
- Four Combi Screws (4 mm x 10 mm).
- Six White Nylon M3 Spacers.
- An extra Fixed Address Label.

## Earth Connection

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During mounting, we recommend removing the Power Supply's Earth Strap. As indicated in Figure 1, locate and disconnect the Earth Strap from the Lid of the Cabinet. This allows easy removal and replacement of the Lid during installation of the ImproX IPS. After installation, we strongly recommend you reattach the Earth Strap to the Lid.

## Installing the Battery into the Cabinet

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1. Open the Lid of the Cabinet.
2. Ensure that power is NOT applied to the ImproX IPS.
3. Place the Battery into the Cabinet with the Battery Terminals in an upwards position.
4. Connect the Red Battery Terminal Lead to the Positive Battery Terminal.
5. Connect the Black Battery Terminal Lead to the Negative Battery Terminal.
6. Apply power to the ImproX IPS.
7. Close the Lid of the Cabinet.

## Mounting the ImproX IPS

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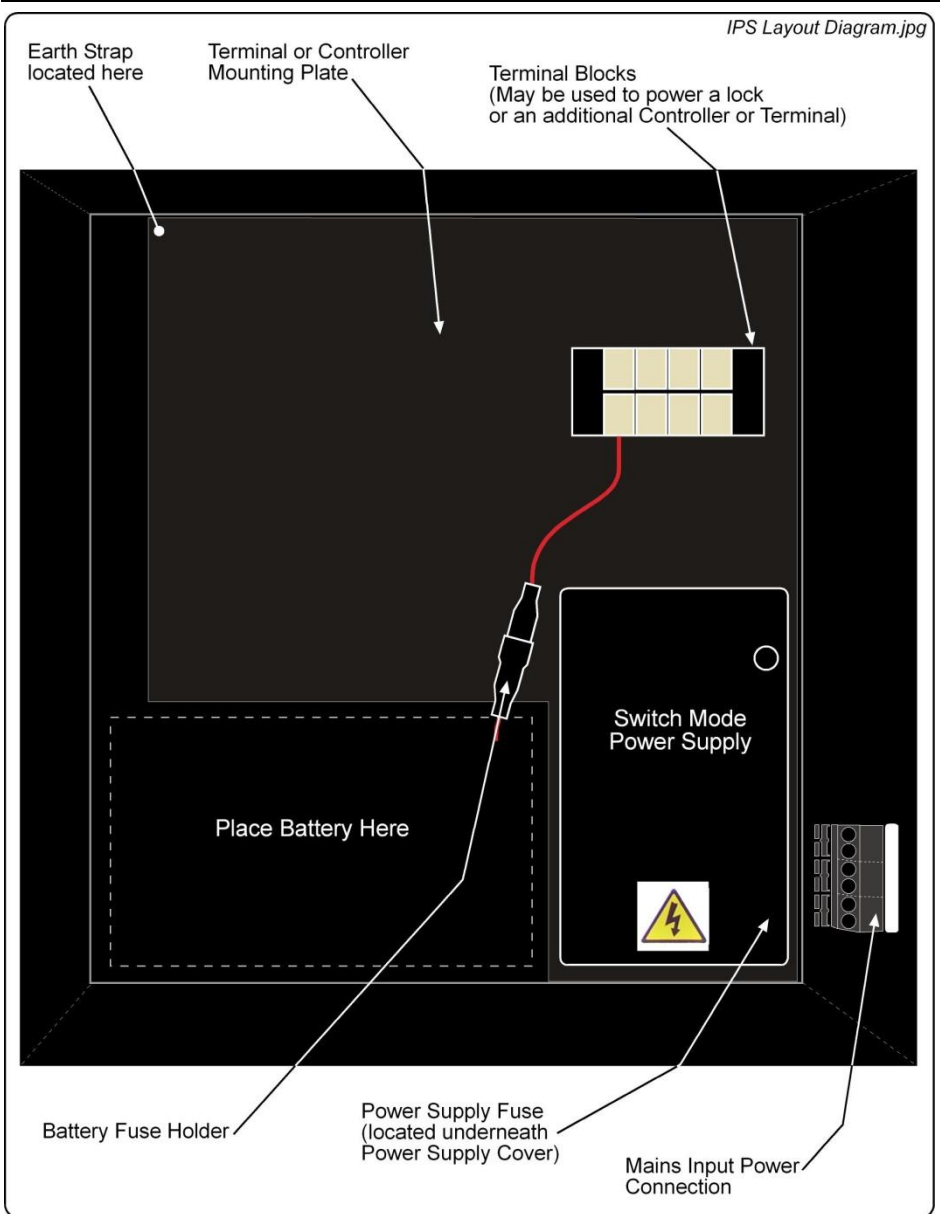
**CAUTION: Make certain that you mount the ImproX IPS on a vibration-free surface.**

Select the mounting position of the ImproX IPS considering routing of the power wires and ventilation. Secure the Base to the surface using three suitable screws, nuts and bolts or rivets.

1. Open the Lid of the Cabinet.
2. Slide the Lid in an upwards direction and unhinge.
3. Fix the Base against the wall using two suitable screws in the Mounting Keyholes.
4. Fix a third screw in the Mounting Slot, adjusting the position of the Base if necessary.
5. Use the supplied Connection Leads for low voltage connections to the ImproX IPS.
6. Using the supplied Quick Click Glands or Gland Breakouts, neatly lead the wires out of the Cabinet.
7. Re-hinge the Lid and slide it in a downwards direction.
8. Close the Lid of the Cabinet.

# CONNECTING THE IMPROX IPS

## Key Component Positions



**Figure 1: ImproX IPS Layout Diagram**

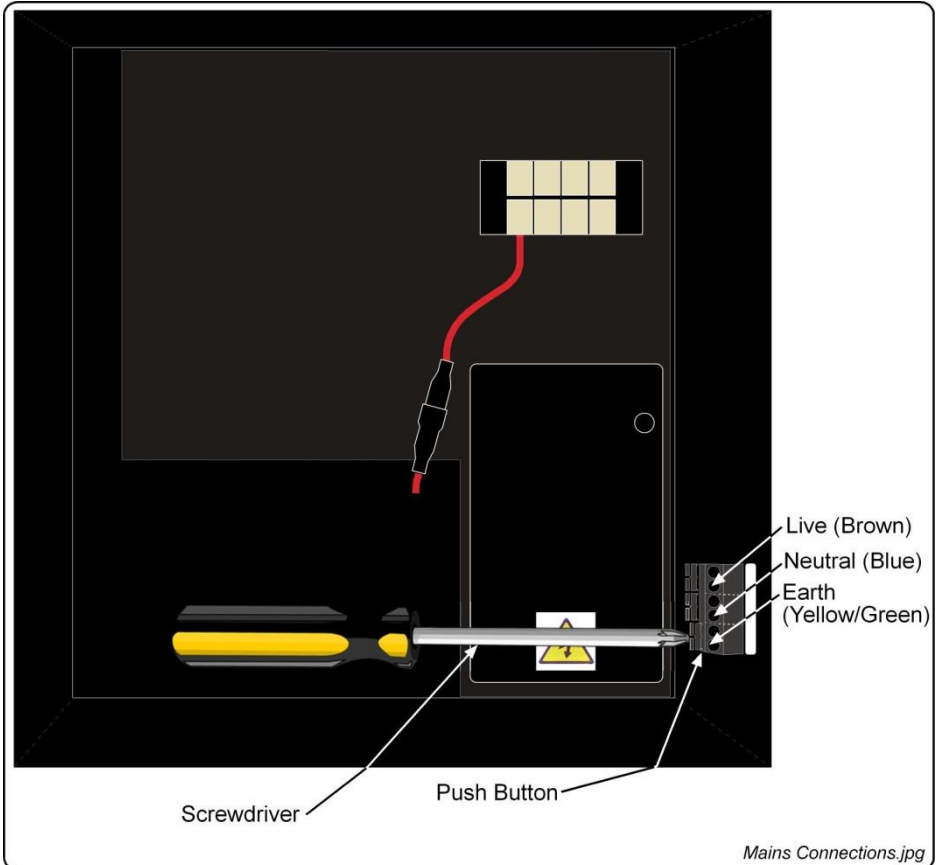
## Connecting the ImproX IPS

**WARNING:** DO NOT REMOVE THE PLASTIC COVER PROTECTING THE SWITCH MODE POWER SUPPLY. REMOVING THE COVER PUTS YOU AT RISK OF ELECTRICAL SHOCK.

**CAUTION:** DO NOT exceed the Input Voltage specified.

### Wiring the Mains Input Power Cord

**WARNING:** DO NOT TOUCH ANY PART OF THE CIRCUIT ONCE YOU'VE APPLIED POWER TO THE IMPROX IPS.



**Figure 2: IPS Mains Connections**

Connect the ImproX IPS to mains power as follows:

1. Open the Lid of the Cabinet.
2. Using a suitable screwdriver, press and hold down the Push-button.
3. Insert the wires.

4. Release the Push-button.
5. Repeat steps 1 to 3 for each connection.
6. Attach a suitable Mains Input Power Plug using the following connections:
  - Live (Brown)
  - Neutral (Blue)
  - Earth (Yellow/Green)
7. Close the Lid of the Cabinet.

## Fuse Information

Fuse Type	Purpose	Rating
Battery Fuse	This fuse protects the Battery from overload as well as incorrect polarity connection.	3.15 A 250 V Slow-blow (5 mm x 20 mm)
Power Supply Fuse	This fuse protects the Power Supply from overload as well as incorrect polarity connection.	4 A 250 V Slow-blow (5 mm x 20 mm)

**Table 1: Fuse Ratings**

**NOTE:** *Because of the delicacy of the replacement procedure, we recommend you contact your distributor before trying to replace the Power Supply Fuse.*

## Replacing the Battery Fuse

**CAUTION:** **Ensure that you have disconnected the mains power supply to the ImproX IPS, and removed the Positive Lead from the Battery before replacing the fuse.**

1. Disconnect the mains power supply to the ImproX IPS.
2. Open the Cabinet.
3. Disconnect the Positive Lead from the Battery.



**Figure 3: Battery Fuse Holder**

4. Unscrew the Fuse Holder's Lid from the Base.
5. Remove the old fuse.
6. Insert a new fuse into the longer end of the Fuse Holder.
7. Screw the Fuse Holder's Lid onto the Base.
8. Reconnect the Positive Lead to the Battery.
9. Close the Cabinet.
10. Reconnect the mains power supply to the ImproX IPS.

## Serial Number Label

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The loose Serial Number Label (packaged with the ImproX IPS) identifies the type of Integrated Power Supply and its Serial Number.

## GUARANTEE OR WARRANTY

**CAUTION: We reserve the right to nullify the products guarantee or warranty where you have not properly installed the Metal-oxide Varistors.**

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to [www.impro.net](http://www.impro.net).

## USER NOTES

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This manual applies to the ImproX (IPS) Integrated Power Supply,  
IPS900-0-0-GB-01.

(The last two digits of the Impro stock code point to the issue status of the product).

IPS300-0-0-GB-06

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