



IMPROX IPS

ImproX (IPS) Integrated Power Supply INSTALLATION MANUAL

SPECIFICATIONS

Working Environment Designed to work in an indoor (dry) environment similar to IP20. The ImproX IPS is, therefore, not sealed against water.

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).

NOTE: The ImproX IPS includes a 3 A Switch Mode Power Supply which provides two outputs, both with a voltage of 13.8 V DC. The combined current supply from both outputs may not exceed 2 A. The remaining 1 A is used for battery charging and system requirements.

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

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.
- Four Combi Screws (4 mm x 10 mm).
- Four Wood Screws (3.5 mm x 25 mm).
- Four Wall Plugs (7 mm).
- Six White Nylon M3 Spacers.
- An extra Fixed Address Label.

Earth Connection

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.

Mounting the Cabinet

CAUTION: Make certain that you mount the Integrated Power Supply 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.

Mounting the Base

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 of the supplied screws in the Mounting Keyholes.
4. Fix the third screw in the Mounting Slot, adjusting the position of the Base if necessary.

Installing the Battery into the Cabinet

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

Blank Space

CONNECTING THE IMPROX IPS

Key Component Positions

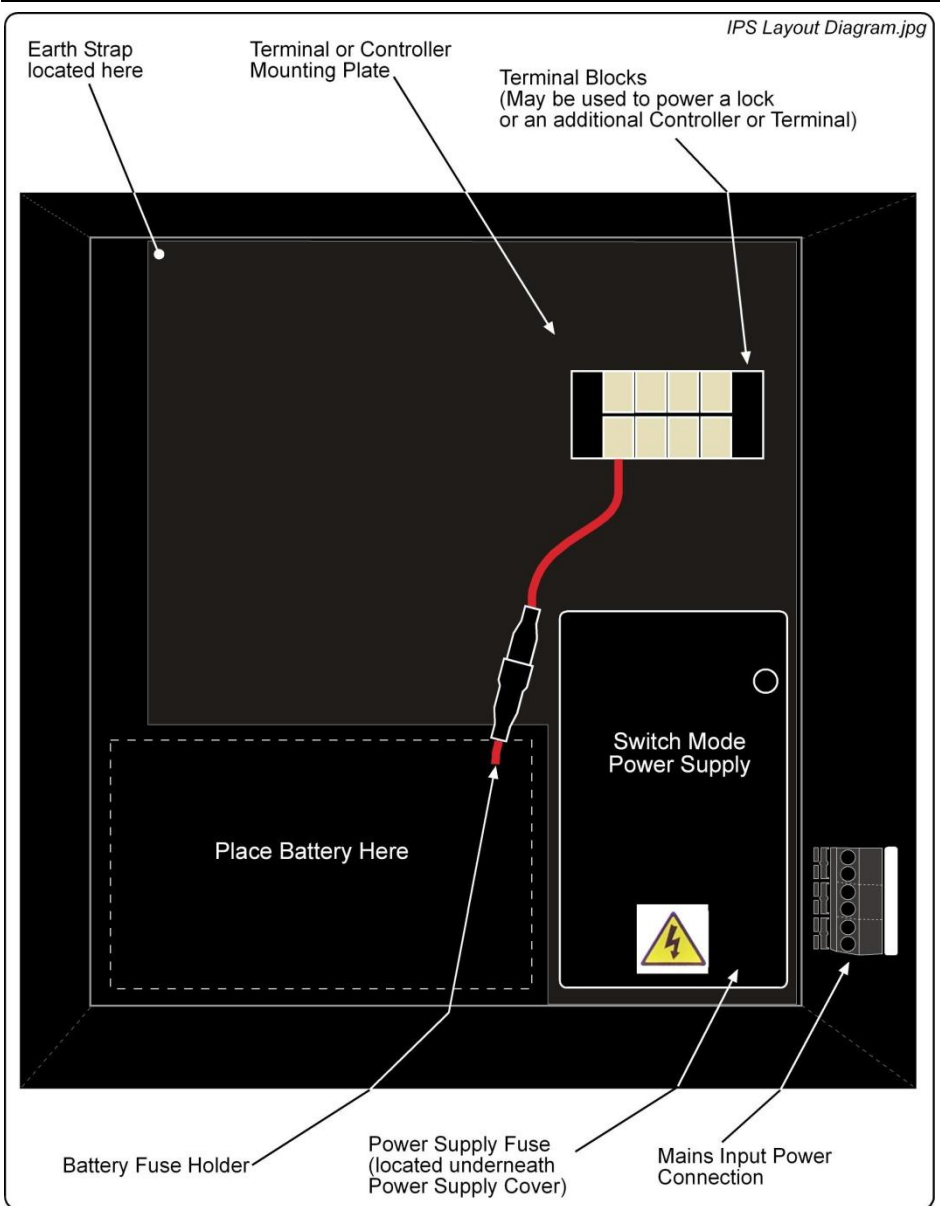


Figure 1: ImproX IPS Layout Diagram

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.

Use the supplied Connection Leads for the low voltage connections to the ImproX IPS. Using the supplied Quick Click Glands or Gland Breakouts, neatly lead the wires out of the Cabinet.

Wiring the Mains Input Power Cord

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

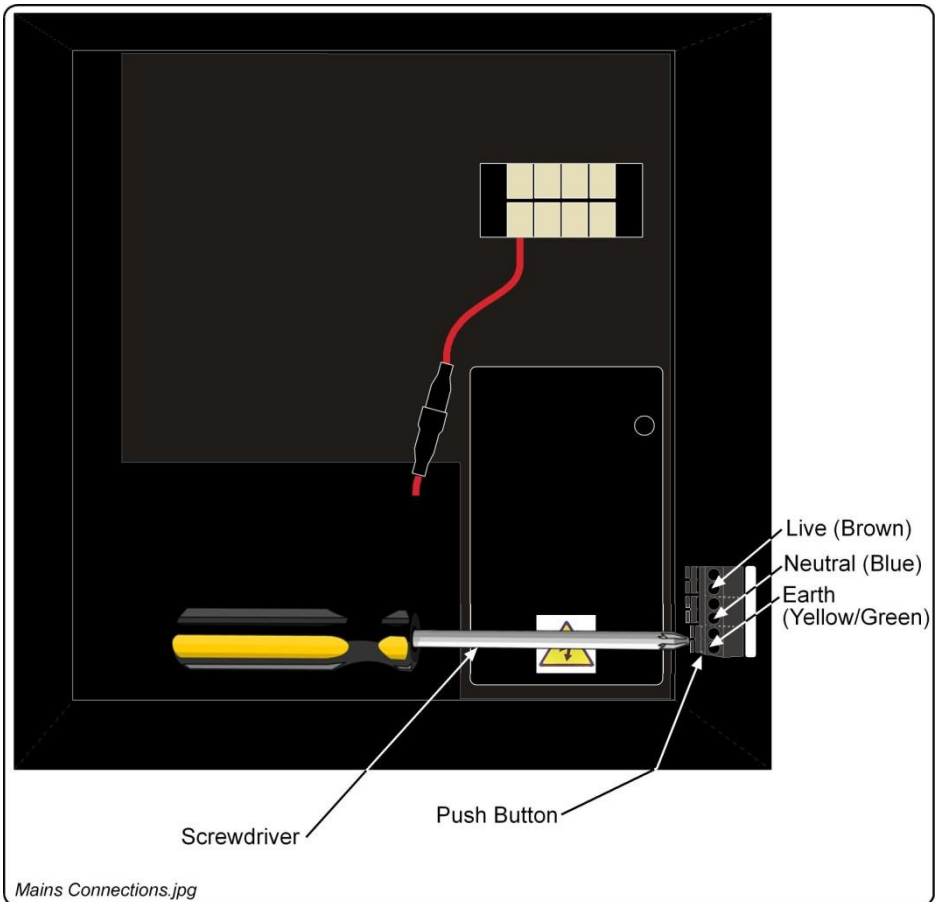


Figure 2: IPS Mains Connections

Connect the ImproX IPS to mains power as follows:

1. Using a suitable screwdriver, press and hold down the Push-button.
2. Insert the wires.
3. Release the Push-button.
4. Repeat steps 1 to 3 for each connection.
5. Attach a suitable Mains Input Power Plug using the following connections:
 - Live (Brown)
 - Neutral (Blue)
 - Earth (Yellow/Green)

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

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.
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.

Blank Space



Figure 3: Battery Fuse Holder

Replacing the Power Supply Fuse

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

Serial Number Label

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.

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-04

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