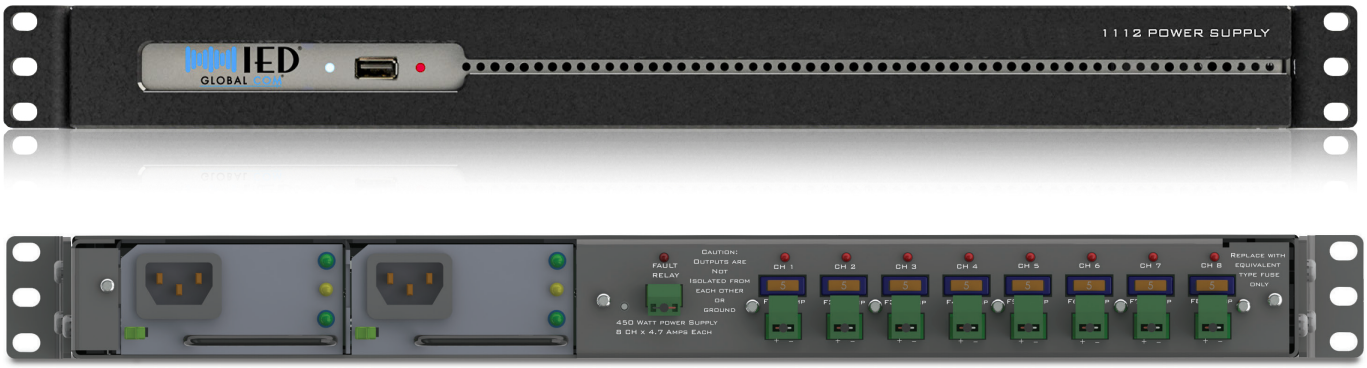
1112PS

Announcement Control System



Installation Instructions
IED Announcement Control System

Description

The 1112PS is a rack mount power supply designed to provide 12V DC power to GLOBALCOM devices. The 1112PS ships with a single 1112PSM power supply module capable of delivering up to 37 Amps of 12V DC power to as many as eight (8) GLOBALCOM devices. This allows a single power supply to power multiple 1100ACS, 1200ACS, 1100MSG, 1200MSG, IP100 Series, and 1100DAB Series units. Each unit is connected to a fused power output port on the rear of the 1112PS. The connectors are secured using the supplied cover plate to prevent unwanted disconnections. A second 1112PSM power supply module can be added to provide redundancy. If a module fails, the remaining module will assume the full load. A module can be replaced while the other module is left on without interrupting power to the system. A relay is provided that will de-energize if a power supply module has failed. This closure can be monitored through the supervision system.

FCC Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Electrical	
Supply Voltage	120 - 240VAC (50-60Hz)
Rated Input Current (persupply)	8 Amps Max
Rated Output Voltage	+12VDC (±5%)
Rated Output Current (total)	37 Amps
Rated Output Current (per output)	4.6 Amps
Relay Contact Rating	Form C, 1A 30VDC, 0.3A 125VAC
Output Fuse (8)	5 Amp 32 VDC (Fast Blow) Blade Fuse
Mechanical	
Height	(4.4cm) 1.75"
Width (without rack mount ears)	(43.2 cm) 17"
Depth	(31.1 cm) 12.25"
Recommended Mounting Depth	(45.7 cm) 18"
Weight (with 1 x IED1112PSM module)	(5.9 kg) 13 lb.
Weight (with 2 x IED1112PSM modules)	(7.1 kg) 15.6 lb.
Environmental	
Operating Temperature Range	(32°F - 104°F) 0°C - 50°C
Storage Temperature Range	(-40°F - 158°F) - 40°C - 70°C
Connectors	
Input Power	IEC 60320 Type C-13
Output Power (typical of 8)	2-pin Phoneix, 5.08mm spacing
Fault Relay	3-pin Phoenix, 3.8mm spacing

Notes:

Compliance

Safety

UL60950-1 (Ed.2) Listed

CAN/CSA C22.2 No. 60950-1-07 (Ed.2) Certified

IEC 60950-1: 2005; AM 1: 2009

EN 60950-1: 2-6/A11: 2009/A1: 2010

CB Certificate

FCC / EMC

CFR, Title 47, Chapter I, Part 15 Subpart B

ICES-003, Issue 4, 2004

AS/NZS CISPR 22: 2005

CISPR 22 (Ed.5): 2005 +A1 (EN 55022: 2006 +A1)

CISPR 24 (Ed.1): 1997 +A1, A2 (EN 55024:1998 +A1, +A2)

IEC 61000-3-2 (Ed.3): 2005, +A1,A2 (EN 61000-3-2:2006)

IEC 61000-3-3 (Ed.2): 2008 (EN 61000-3-3:1995 +A1, +A2)

Connections

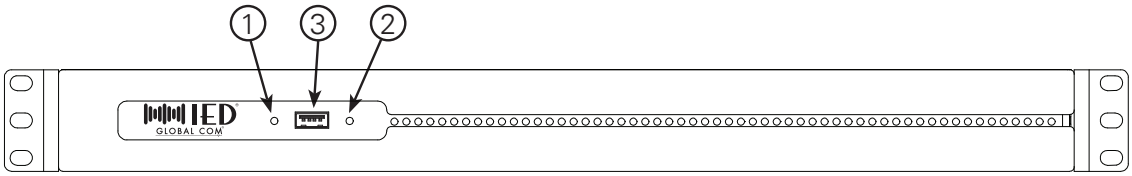


Figure 1 - IED1112PS Front View

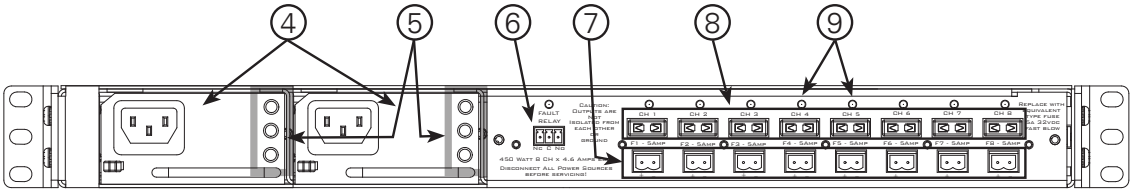


Figure 2 - IED1112PS Rear View

1. **Power LED**

   This LED will illuminate when the unit is powered on.

2. **Fault LED**

   This LED will illuminate when the power supply fault is present or if an output fuse has failed. This corresponds with the de-energizing of the fault relay.

3. **USB Power Port**

   5V DC power is available to this port to allow charging of portable devices with a USB connection.

4. **Power Supply Modules**

   A single IED1112PSM power supply module is included with teh IED1112PS and will be installed in one of the two available bays. A second IED1112PSM power supply module can be added to the unit to provide redundant power. When two modules are installed, they will share the total load placed on the unit. If either module fails, the total load will be assumed by the remaining module.

5. **Power Supply Status Indicators**

   These LED's indicate the operational status of the individual power supply module.

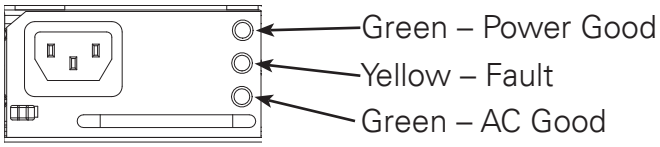


Figure 3 - IED1112PS Status Indicators

6. **Fault Relay Terminal**

   This connector utilizes a 3-pin Phoenix plug with 3.8mm spacing to access the status of the fault relay. The relay is energized when no fault condition is present and the contact is closed between the NC and C terminals. The relay will de-energize when a power supply fault is pres ent and the contact is closed between the NO and C terminals. The fault relay will trip if a power supply has failed or if an output fuse has failed or has been removed.

Figure 1 - Fault Relay Connector

7. **Power Output Terminals (8)**

   There are eight (8) output ports available that use 2-pin Phoenix plugs with 5.08mm spacing. Each port can be used to power a GLOBALCOM device using the supplied adaptor cable.

8. **Output Port Fuses (8)**

   Each output port is protected by a 5A fuse. Use a 5A 32VDC (fast blow) blade style fuse for replacement in the event that a fuse is blown.

9. F**use Status LEDs (8)**

   Each output port has a green status LED located directly above the fuse. The IED illuminates green when power is available at th eport. The LED will turn off when the fuse is blown or removed, indicating that power is not available at that output port.

Installation

WARNING! Before performing the following procedure, review the safety instructions on the previous pages.

ATTENTION! Avant de procéder à l'étape suivante, examinez les consignes de sécurité des pages précédentes.

NOTE: This equipment is intended for installation in a restricted access location.

Unpacking and Preparing the Unit

Unpack the unit from its shipping carton and identify any accompanying components that may have been included. Attach the rack ears as shown in Figure 5 to allow the unit to be mounted in a standard 19**"** equipment rack. Adjust the ear positions so the front of the ear is even with the front of the unit and tighten the screws securely.

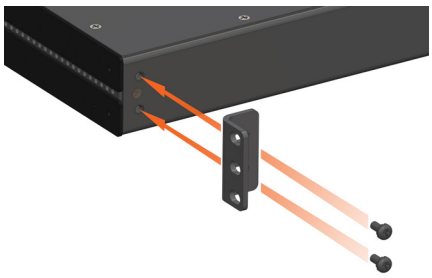


Figure 5 - Attaching Rack Mount Ears to the Unit

Install Unit Into A Rack

The IED1112PS requires one rack unit (1 RU) of available space and a recommended mounting depth of 18**"** to allow adequate clearance for cabling. Select a location in the 19**"** rack for the unit based on proximity to the device that will be served by the unit. Mount the unit using suitable screws for the rack being used, two per rack mount ear. Please refer to any safety and installation instructions that came with the rack prior to assembly.

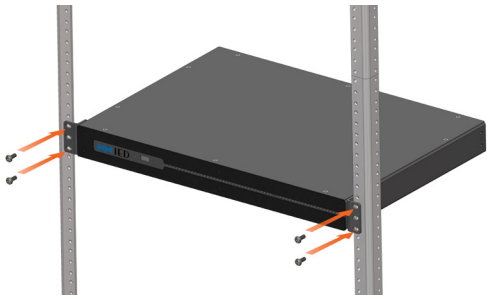


Figure 6 - Mounting Unit in a Rack

Install Fuses

If the unit shipped with fuses un-installed, install them now by inserting them straight into the fuse sockets provided for each power output connection as shown in Figure 7.

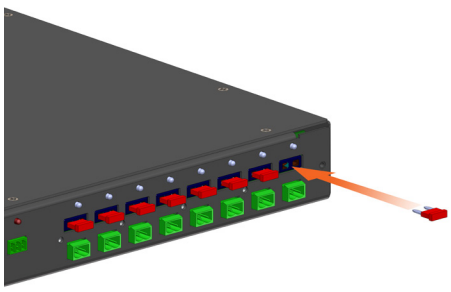


Figure 7 - Inserting Fuses

Connect Fault Relay and Power Output Cables

The optional fault relay connection may be connected via the Phoenix connector in the center of the back of the unit. Also, attach power output cables for all of the required devices to be powered by the 1112PS, as shown in Figure 8.

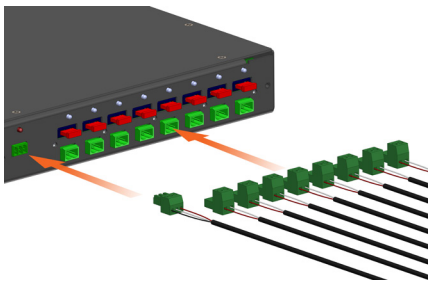


Figure 8 - Connecting Fault Relay and Output Power

To ensure the power output connections and relay connection do not get accidentally pulled out nor the fuses accidental damaged, install the provided cover plate to secure them using the provided screws as shown in Figure 9.

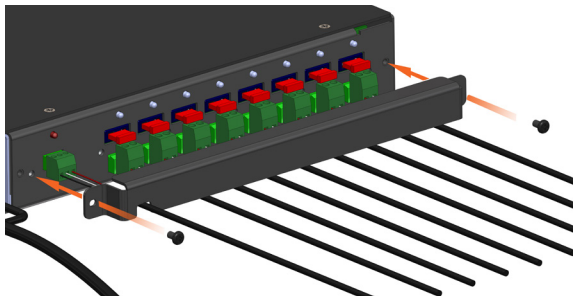
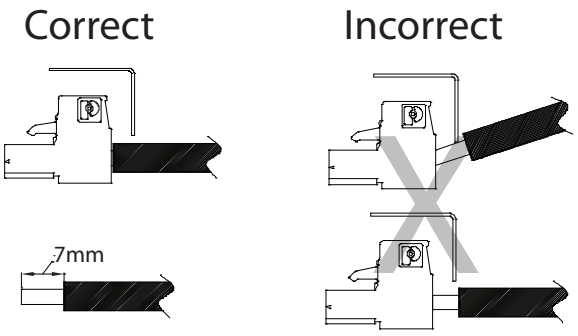


Figure 9 - Securing Cover Plate Over the Connectors

CAUTION! Ensure that wire is stripped no more than 7mm from the end in order to prevent the wire from shorting to the rear cover plate. Do not allow any insulation to be crimped in the compression terminal.

AVERTISSEMENT! Veuillez vous assurer que le fil électrique ne soit pas dénudé sur plus de 7mn de l'extrémité afin d'éviter un cours circuit de la plaque de recouvrement arrière. Ne laissez pas d'isolant serti dans le terminal de compression.



Install Primary Power Supply

Unpack the primary power supply module (IED1112PSM) and install it as shown in Figure 10. Press firmly until the locking tab snaps into place.

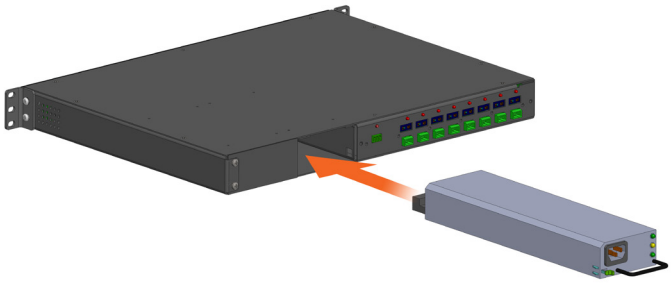


Figure 10 - Installing Primary IED1112PSM Power Supply

Optional - Install Second (Backup) Power Supply

If a second power supply module (IED1112PSM) was purchased for redundancy, it will be boxed separately. Remove the blank cover plate on the rear of the unit as shown in Figure 11. Remove the module from its packaging and install in the open slot as shown in Figure 12.

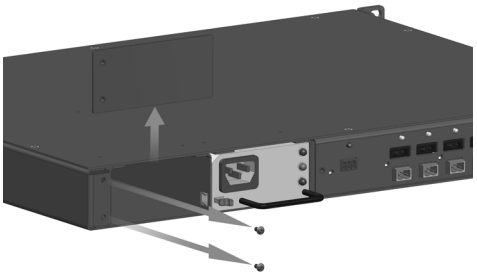


Figure 11 - Power Supply Slot Cover Removal

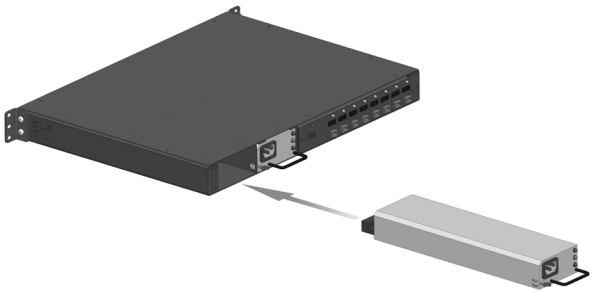


Figure 12 - INstalling Second IED1112PSM Power Supply Module

Connect Power Plug

Attach the AC power cables by plugging them into the power supply modules as shown in Figure 13. (Note, if there is only one supply, only one power plug will be installed.)

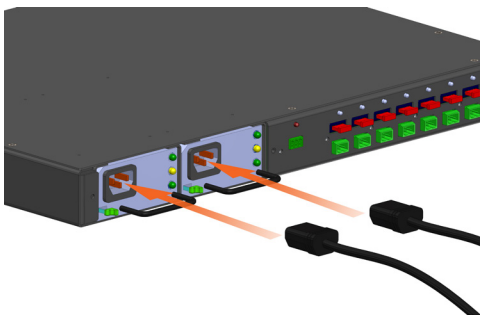


Figure 13 - Connect Power Plugs