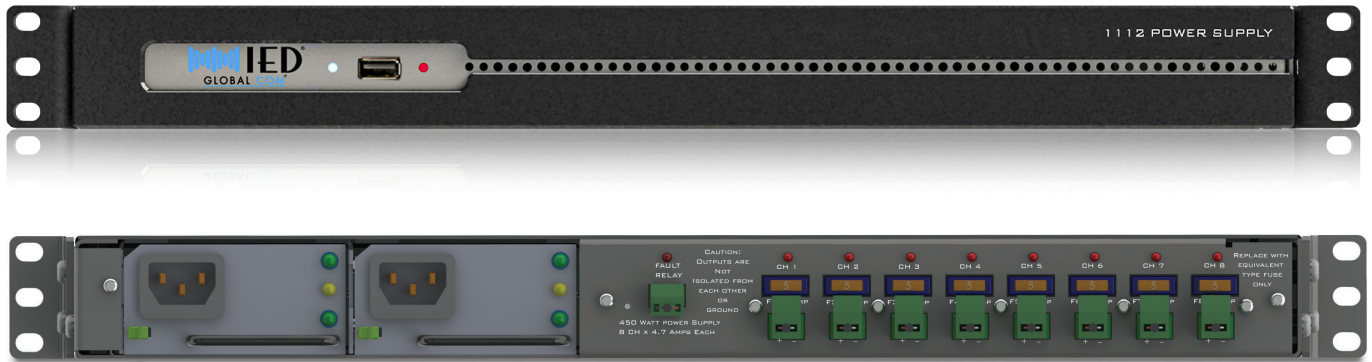


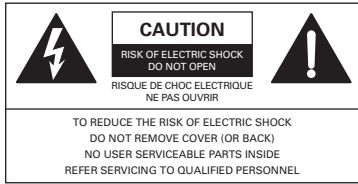
# 1112PS

GLOBALCOM Power Supply



## Installation Instructions

## Important Safety Instructions



Labeling on products and the Installation Instructions & User Manual may use safety related graphical symbols as shown below to note safety requirements.

**⚡ Lightning Bolt:** lightning flash with arrowhead symbol, within an equilateral triangle, WARNING symbol, is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be sufficient in magnitude to constitute a risk of electric shock to persons or domestic animals.

**⚠ Exclamation Point:** The exclamation point within an equilateral triangle, CAUTION symbol, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions, or a hazard that can damage equipment.

**⚠ Do not proceed beyond a WARNING or CAUTION notice until you have understood the hazardous condition and have taken appropriate steps.**

**⚠ Ne continuez pas avant d'avoir pris connaissance du danger et prendre les mesures appropriées.**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other device that produce heat.
9. This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
10. To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
11. The mains plug of the power supply cord shall remain readily operable.
12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
13. Only use attachments / accessories specified by the manufacturer.
14. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart / device combination to avoid injury from tip-over.
15. Unplug this device during lightning storms or when unused for long periods of time.
16. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.



**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain, moisture, dripping, splashing, or place objects filled with liquids on the equipment.

**AVERTISSEMENT:** Afin de réduire le risque d'incendie ou de choc électrique, n'exposez pas cet appareil à la pluie, à l'humidité, à l'égouttement, aux éclaboussures, et ne posez pas des objets remplis de liquide sur l'appareil

**WARNING:** If apparatus is equipped with Class I grounding plugs for safety purposes, it must be connected to MAINS that employ a protective earth ground connection.

**AVERTISSEMENT:** si l'appareil est équipé de prises de terre classe I, pour des raisons de sécurité, il doit être branché sur un réseau ayant une prise de terre de protection.

**WARNING:** The MAINS plug on this device may be used as the DISCONNECT DEVICE for MAINS power and must remain readily operable.

**AVERTISSEMENT:** La prise principale de cet appareil peut être utilisé comme DISPOSITIF de DECONNEXION du courant principal et doit rester facilement accessible.

**WARNING:** Installation and maintenance of AtlasIED equipment is to be made by trained / qualified personnel and must conform to all applicable local codes.

**AVERTISSEMENT:** l'installation et la maintenance des équipements AtlasIED doit être faite par du personnel formé / qualifié et doivent être conformes à toutes les réglementations locales en vigueur.

**WARNING:** If unit contains a lithium battery, there is a danger of explosion. Replace only with the same or equivalent type.

**AVERTISSEMENT:** Si l'unité contient une pile au lithium, il y a un danger d'explosion. Remplacez-la uniquement avec un modèle identique ou équivalent.



**WEEE NOTICE:** This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

### 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 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.

## Connections

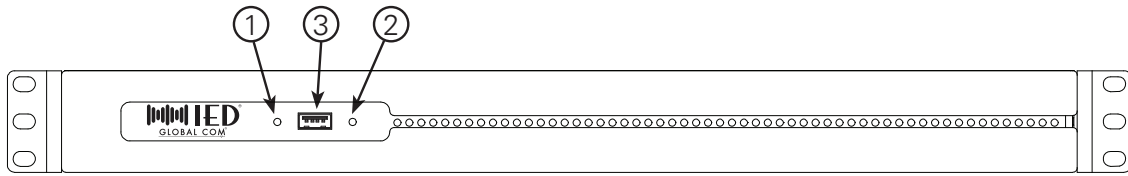


Figure 1 - IED1112PS Front View

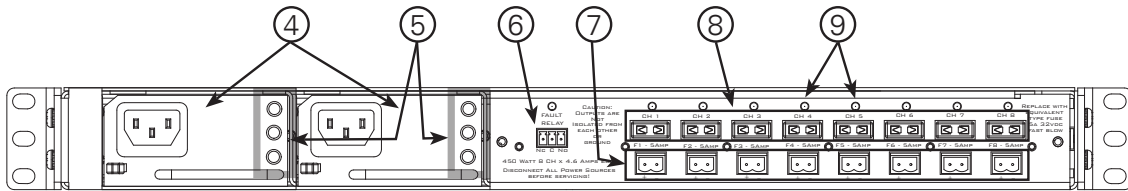


Figure 2 - IED1112PS Rear View

### 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 the 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.

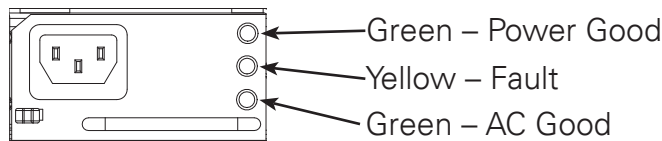


Figure 3 - IED1112PS Status Indicators

### 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 present 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 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. Fuse 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 the port. 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.

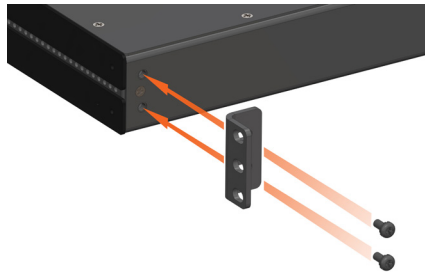


Figure 5 - Attaching Rack Mount Ears to the Unit

## 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.

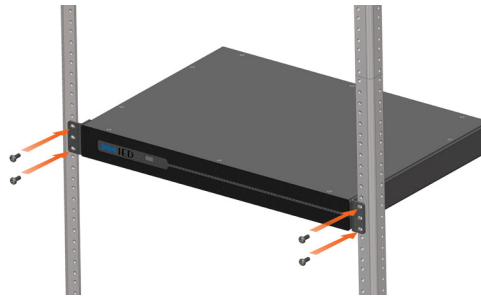


Figure 6 - Mounting Unit in a Rack

## 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.

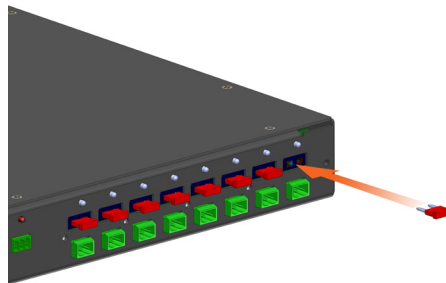


Figure 7 - Inserting Fuses

## 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.

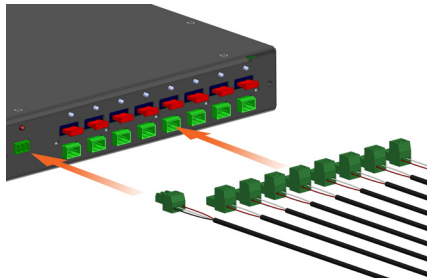


Figure 8 - Connecting Fault Relay and Output Power

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.

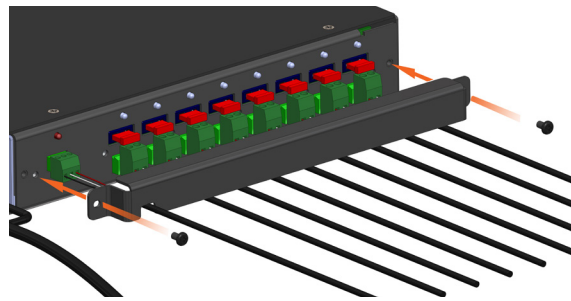
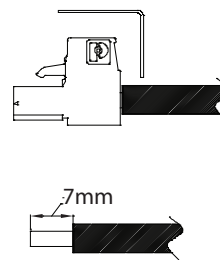


Figure 9 - Securing Cover Plate Over the Connectors

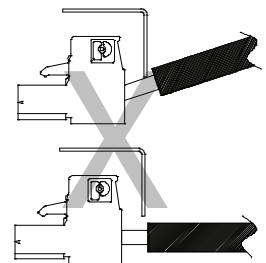
**CAUTION!** Ensure that wire is stripped no more than 7mm from the end in order to prevent the wire from shorting to the rear cover plate. Do not allow any insulation to be crimped in the compression terminal.

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

Correct



Incorrect



## 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.

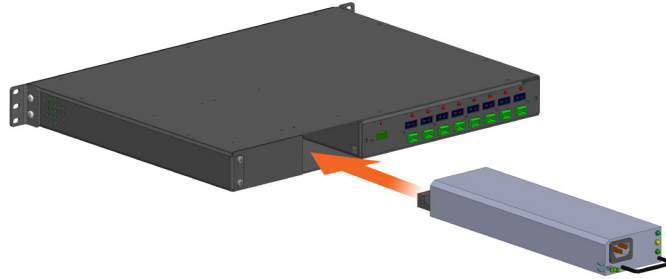


Figure 10 - Installing Primary IED1112PSM Power Supply

## 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.

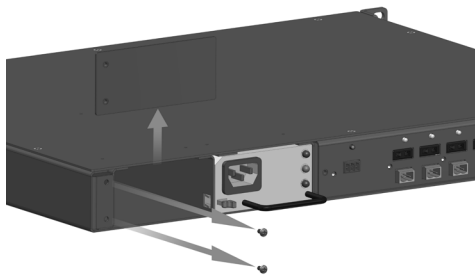


Figure 11 - Power Supply Slot Cover Removal

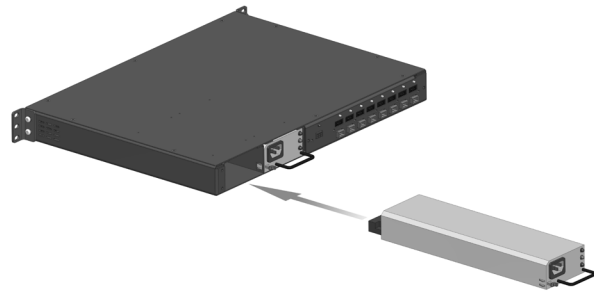


Figure 12 - Installing Second IED1112PSM Power Supply Module

## 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.)

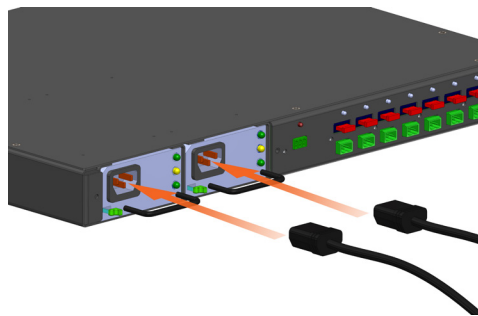


Figure 13 - Connect Power Plugs

<b>Electrical</b>	
Supply Voltage	120 - 240VAC (50-60Hz)
Rated Input Current (persupply)	8 Amps Max
Rated Output Voltage	+12VDC ( $\pm 5\%$ )
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
<b>Mechanical</b>	
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.
<b>Environmental</b>	
Operating Temperature Range	(32°F - 104°F) 0°C - 50°C
Storage Temperature Range	(-40°F - 158°F) - 40°C - 70°C
<b>Connectors</b>	
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**

ETL Listed:

Conforms to UL60950-1, UL 62368-1

Certified to CSA C22.2 No. 60950-1, CSA C22.2 No. 62368-1

IEC 60950-1, IEC 62368-1

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)