

Modular AC to DC Power Converters for Zhone DSLAMs and BLCs

- ✓ *Hot swappable*
- ✓ *Active load sharing*
- ✓ *Redundant parallel operation*
- ✓ *Universal AC input*
- ✓ *Power-factor correction*
- ✓ *Over-voltage, over-current and over-temperature protection*
- ✓ *Power fail, over-temperature and fault alarms*

Zhone's MPC-AC modular AC-to-DC power supply system consists of a MPC-AC-S power shelf that accepts up to three (3) modular MPC-AC-15A front-access rectifiers that are specifically designed to operate as an integral part of a complete distributed power system.

Zhone's MPC-AC-S power shelf is designed to be easily rack mounted in a minimum amount of space. The MP-AC-S has been optimized for use with the IPD12000E and IPD4000E Ethernet DSLAMs, although it is capable of delivering reliable and redundant power to any 48 VDC-powered device.

The MPC-AC power shelf and modular rectifiers are designed for worldwide application in any 2U high space where nominal 48 V is needed. The AC power is applied using three (3) individual AC power cords for maximum flexibility and reliability.

Each MPC-AC-15A rectifier is available in EU, UK, and US varieties, and includes a full complement of alarm and shutdown features to protect the system in the event of a fault condition. Each power module delivers up to 15-amps at 48 vdc and is hot swappable. They can be configured in the MPC-AC-S shelf in a redundant, load-sharing manner to allow you to maximize the up time of your DSL infrastructure.

The flexible feature set available in Zhone's MPC-AC modular, front-access power system makes it an excellent choice for applications requiring carrier-grade, reliable, and modular ac-to-dc bulk voltages.

Technical Specifications

Dimensions

- Shelf (HxWxD):
 - 3.5" x 19.0" x 12.0"
 - 8.8cm x 48.3cm x 30.5cm
- Rectifiers (HxWxD):
 - 3.4" x 5.75" x 10.8"
 - 8.6cm x 14.6cm x 27.4cm

Weight

- Shelf: 8 lbs (3.6 kg)
- Rectifiers: 7 lbs (3.2 kg)

Power

- Input: 85-264 VAC; 50-60 Hz; 40A max (peak)
- Output: 48 VDC; 800 watts

Regulatory Compliance

- UL60950 Recognized
- CSA C22.2 No. 60950-00 Certified
- VDE (IEC60950) Licensed (UL and c-UL Listings are provided at the shelf level.)
- CE mark meets 73/23/EEC and 93/68/EEC directives

Operating Requirements

- Storage temperature -40°C to +85°C
- Operation temperature -5°C to +55°C
- Humidity 95% maximum non-condensing

Ordering Information

MPC-AC-S	15 3-Slot modular power shelf supports up to three (3) MPC-AC-15A 15 Amp power modules
MPC-AC-15A-EU	Modular, AC-to-DC 15 Amp power module with EU power cord for the MPC-AC-S shelf
MPC-AC-15A-UK	Modular, AC-to-DC 15 Amp power module with UK power cord for the MPC-AC-S shelf
MPC-AC-15A-US	Modular, AC-to-DC 15 Amp power module with US power cord for the MPC-AC-S shelf

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