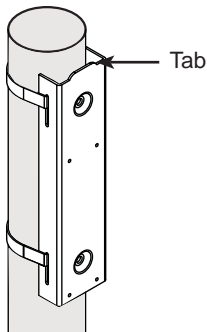


MPS48-7F/T Quick Start Guide

Alpha's FlexNet MPS48-7F multipurpose power supply provides primary and standby power to fiber-to-the-home MDU and SBU ONT products. The MPS48-7T provides primary and standby power for telecom communication loads that use dry contact alarming. For complete installation instructions and additional information, see the MPS48-7F/T Technical Manual, Alpha P/N 021-511-B0, available at www.alpha.com.

Enclosure Installation Procedure:

1. Unpack and inspect the MPS48-7F/T.
2. Select a location capable of supporting 35 lb. for mounting the MPS48-7F/T.
3. Pole or wall-mount the bracket with the tab side up. For pole-mounting, use two user-supplied mounting straps (straps must be stainless, galvanized or equivalent) For wall-mounting, use two user-supplied 1/4" x 2 1/2" lag bolts (or equivalent).
4. Hang the enclosure on the bracket and secure the enclosure to the bracket using the four supplied self-tapping screws with washers.



Hang enclosure



Secure with self-tapping screws

ATTENTION:

The user or installer must provide an accessible system disconnect device located near the power supply enclosure as required by local electrical codes, and provide an over-current protection device with a maximum rating of 20A, or as required by local electrical codes.

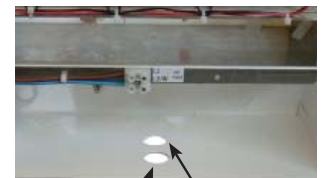
120/240Vac Input Wiring:

1. Verify utility power is OFF. Tag and lock utility power switch.
2. Remove the two 1/2" EMT knockouts (7/8" dia.), located in the center bottom of the enclosure. For alternate installation, remove knockouts from the right side, left side or back left of the enclosure.
3. Install the provided 1/2" strain relief fitting, or user-supplied 1/2" electrical metallic tubing (EMT) in the center 1/2" knockout. Route the line cord, or #18AWG wire for AC connection, between the enclosure and utility power connection.
4. **For 120V applications:** connect the line and neutral wires to the AC input block. Torque to 4.5 in-lbs (.5 N m). Remove the protective label on the input voltage select switch. Move the switch to the 120V position.

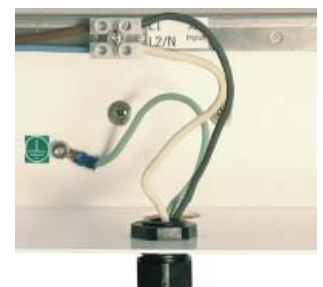
For 240V applications (factory default): connect L1 and L2 wires to the AC input block. Torque to 4.5 in-lbs (.5 N m).

For high voltage applications: See Technical Manual.

5. Connect the ground wire (green) to the #10 ground stud. Torque to 36 in-lbs (4.1 N m).
6. Tighten the strain relief fitting using channel locks and a 1" wrench.



1/2" Knockout (output connections) 1/2" Knockout (line)



Up for 120V

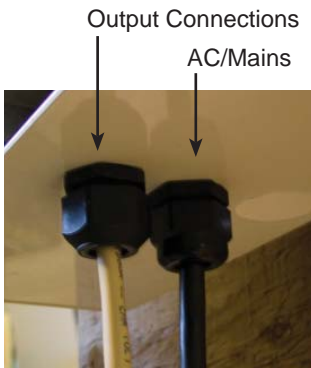


CAUTION!

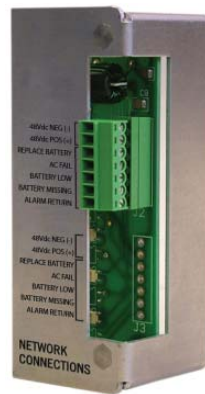
Verify the input voltage matches the input voltage selection switch setting. Applying 240Vac to units configured for 120Vac will damage the unit and void the warranty. Applying high voltage to units without a high voltage step-down transformer will damage the unit and void the warranty. See manual for details.

Network Connections:

1. Install the base of the second strain relief fitting into the remaining 1/2" knockout, and secure the top inside nut.
2. Route the power and alarm wiring into the enclosure through the outer nut and base.
3. Secure the outer nut, securing the cabling.
4. Connect power and alarm wiring according to the silkscreen indications.
5. Proceed to battery connection. Do not connect AC power at this time.



Strain Relief Fittings (supplied)



MPS48-7F Power Interface Module

48Vdc Load and Alarm Connections



MPS48-7T Power Interface Module

48Vdc To Load
Alarm Connections

Battery Connection Procedure:

1. Loosen the retaining screw on the battery retaining bracket and move the bracket clear of the battery shelf.
2. If using the battery heater mat option, verify the input voltage printed on the battery heater mat label matches the selected AC input voltage. Place the battery heater mat on the shelf. Connect the 3-pin connector to the Battery Heater connection on the power module.
3. Place two 7.2Ah batteries on the battery shelf and tape the battery temperature probe to the side of the second battery. Place the remaining two batteries on the battery shelf.
4. Replace the battery retaining bracket and secure.
5. Connect the batteries, leaving the far left negative terminal unconnected. The positive battery connections are fitted with a safety tab to prevent misconnection.



Battery Heater Plug

Network Connections:

Make network connections, and complete any other connections on the customer and service AC side at this time.

Start-up and Operation:

1. Verify the input voltage select switch on the power module is set for the correct input voltage.
2. Verify connections and apply AC power to the unit.
3. Connect the remaining battery terminal.

The green status LED should be ON solid after the battery connection is made. Operating status of the MPS48-7F/T is indicated by two status LEDs located on the power module. See table (right) to determine operational status and possible faults.



Tape Temp. Probe to Battery

LED Color	State	Indication
Green	Solid	Output OK
Green	Blinking	Standby Operation
Red	Blinking	Battery Low/Missing
Red	Solid	Replace Battery
Red & Green	Blinking	Overload

For more information visit www.alpha.com

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