DC Converter Kit
Model: 48-12-1i

INSTALLATION / OPERATION INSTRUCTIONS

General Description

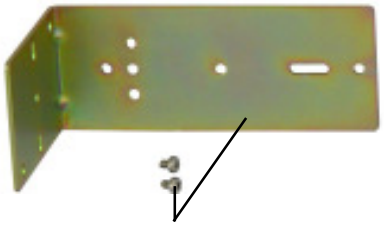
If you intend to power from a -48 VDC source **AND** monitor -48 VDC when powering the SPM-200, input power must come from an isolated DC Converter. This kit contains a suitable DC Converter and mounting bracket options.

Mounting

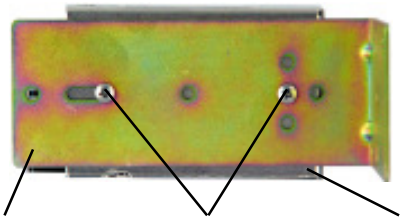
There are two mounting options for this converter:
1) L Bracket (included in kit) - for any horizontal / vertical surface
2) DIN-Rail bracket (included in kit)

Mounting

1) L Bracket



L Bracket Mount with
2 x M3-4mm Screws



L Bracket
P/N 977-5015-1

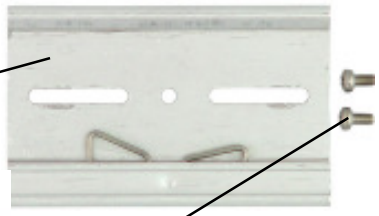
2 x M3-4mm Screws
P/N 718-0304M2

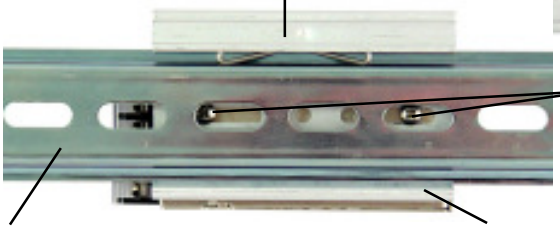
48-12-1i
DC Converter

1) Mount the bracket to the converter using the M3-4mm x 2 screws; **DO NOT USE** the longer 6mm screws as this will damage the converter. 2) Now you can mount the converter and bracket to desired location. Hardware not supplied.

2) DIN-Rail

DIN Rail (35mm) mounting plate,
P/N 977-5015-2





2 x M3-6mm screws,
P/N 718-0306M2

DIN-Rail 35mm (not included)

48-121i DC Converter

Use the M3-6mm screws to secure the DIN-Rail mounting plate to the side of the 48-12-1i converter. The mounting plate is slotted for adjusting its position, slide the DIN-Rail plate onto the DIN-Rail plate.

M-48-12-1i
As of January 2010

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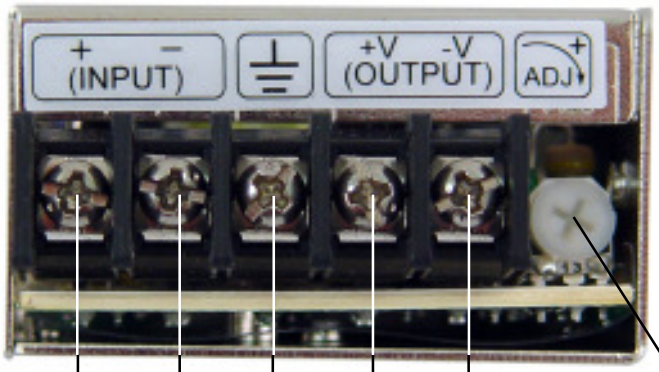
Wiring

48-12-1i DC Converter



Note 1: Chassis is Floating. Terminal block ground screw is only connection to chassis. Connect to system ground.

Output Voltage Adjustment
Range: 10.8-13.2 VDC
Preset to: 12 VDC

Input: 36-72 VDC Source (0.45 Amps @ 48 VDC)

+

-

Fuse

Note 2

Note 1

-

+

12 VDC Output to SPM-200 Terminals 19 (-) & 20 (+) or to 12 VDC Load (1.2 Amps Max.)

Note 2: Fuse hot side of input for wiring protection (fuse shown on negative input on a -48VDC input source).

Specifications

Input: 36 to 72 VDC, 0.45 amp draw @ 48 VDC
Output: 12.0 VDC @ 1.25 amps max.
Ripple & Noise: 125 mV p-p
Line/Load Regulation: +/- 0.3%
Efficiency: 79%
Operating Temperature: -10°C to +60°C, 100% @ 40°C;
Derate linearly from 100% @ 40°C to 60% @ 60°C (Horizontal Mount)
Protections:

- Overload
- EMI Conduction & Radiation: Compliance to EN55022, Class B
- EMS Immunity: EN61000-4, -2, 3, 4, 6, 8
  ENV50204

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