

Multi-Zone Power Supply

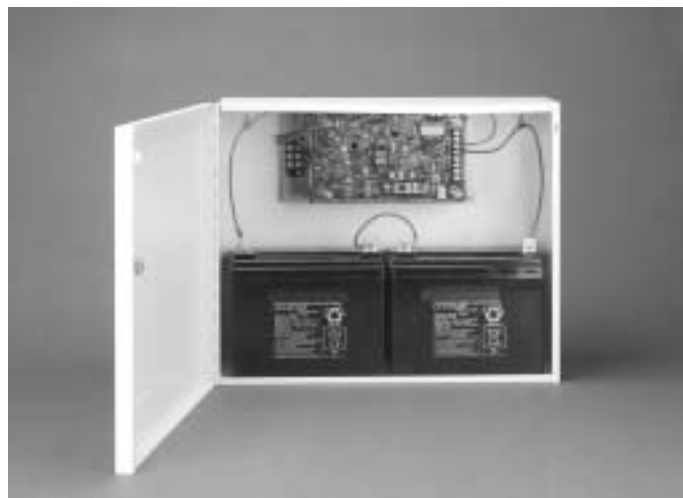
For AnaLASER® II Detectors

89.257

FENWAL®

FEATURES

- UL Listed
- FM Approved
- ULC Listed
- CSFM Listed 7315-1076:166
- NYC MEA Approved MEA 60-02-E
- 120 or 240 Vac Input
- 4 Amps at 24 Vdc Output
- Up to 24 hours Battery Backup
- Integral Battery Charger
- Fully Supervised
- Optional 48 Vdc Version
- UL 1481 Listed as an Auxiliary Fire Alarm System Power Supply



DESCRIPTION

The AnaLASER II Multi-Zone Power Supply provides supervised 24 Vdc power with 24-hour backup for AnaLASER II Detectors. The universal input accepts either 120 Vac or 240 Vac input voltage and does not require manual voltage selection to operate in either range.

The AnaLASER II Multi-Zone Power Supply consists of an enclosure with a power supply/battery charger and two 12 V, 33 Ah sealed lead-acid batteries. This will provide power with 24 hours battery backup for up to four AnaLASER II Detectors. If the Secondary Battery Backup Assembly is also used, it will provide battery backup for up to eight AnaLASER II Detectors. If optional equipment is powered by the supply, then the number of Detectors that can be powered by the supply may be reduced.

The power supply/battery charger supervises the input AC power, the batteries and provides ground fault supervision on the 24 Vdc output. A trouble relay is used to tie the power supply supervision into the AnaLASER II Detector or other monitoring device. There are no controls on the power supply.

The enclosure holds the power supply/battery charger and two batteries. The enclosure is designed for surface mounting with a hinged lockable door and is finished in a light gray power-coat paint. Battery connection cables are shipped with the enclosure.

The power supply with the optional battery strap kit has been tested for use in a Seismic Zone 4 location.

OPTIONAL 48 VDC POWER SUPPLIES

An optional series of 48 Vdc to 24 Vdc power supplies are available for installations in telephone central offices where the Detectors can be powered directly from the 48 Vdc uninterruptible power system. These units use a solid state DC-DC power converter. No battery backup is provided with these units.

The enclosure can mount one or two power converters. Each converter can power up to four AnaLASER II Detectors.

POWER SUPPLY/CHARGER TECHNICAL SPECIFICATIONS

Input Voltage:	120 or 240 Vac 50/60 Hz
Maximum Input Current:	2.4 A at 120 Vac 1.4 A at 240 Vac
Operating Temperature:	32° to 120°F (0° to 49°C)
Operating Humidity:	10 to 93% RH, non-condensing
Output Voltage:	27.3 Vdc with 0.28 V _{pp} ripple
Output Current:	Up to 4 A. Actual current depends on configuration. See AnaLASER II Manual, 89.200 for details.
Battery Charge Voltage:	27.3 Vdc
Battery Charging Circuit:	Two, each protected by a 6.0 A PTC and 1.5 A current limit.
Trouble Relay:	Normally closed contacts (selectable for normally open) 1 A @ 28 Vdc, resistive
Electrical Connections:	18 to 12 AWG (0.75 to 2.5 mm ²) terminal wiring
Shipping Weight:	3.5 lb. (1.6 kg)

BATTERY TECHNICAL SPECIFICATIONS

Nominal Voltage:	12 Vdc
Capacity:	33 Ah
Construction:	Sealed Lead-Acid
Termination:	¼" ring lugs
Dimensions:	7.75" W x 6.4" H x 5.2" D (19.7 cm W x 11.7 cm H x 16.3 cm D)
Shipping Weight:	26 lb. (11.8 kg)

ENCLOSURE TECHNICAL SPECIFICATIONS

Dimensions:	17.25" W x 14" H x 6.25" D (43.8 cm W x 35.6 cm H x 9 cm D)
Shipping Weight:	12.1 lb. (5.5 kg)

48 VDC POWER CONVERTER TECHNICAL SPECIFICATIONS

Input Voltage:	48 Vdc nominal, 36 to 60 Vdc
Maximum Input Current:	1.9 A at 48 Vdc
Operating Temperature:	32° to 120° F (0° to 49°C)
Operating Humidity:	0 to 85% RH, non-condensing
Output Voltage:	24 Vdc ±2%
Output Current:	3.0 A maximum
Output Ripple:	720 mV
Isolation Voltage:	3.75 kV RMS
Shipping Weight:	0.8 lb. (0.4 kg)

ORDERING INFORMATION

COMPONENT	PART NUMBER
Multi-Zone 120/240 Vac Power Supply Assembly	89-300020-001
Multi-Zone Secondary Battery Backup Assembly	89-300020-002
Multi-Zone Power Supply/Battery Enclosure Only	89-300020-000
Multi-Zone 120/240 Vac Power Supply Module Only	89-300022-001
One 12 Vdc, 33 Ah Battery	89-100052-001
Single 48 Vdc Power Converter Assembly	89-300025-001
Dual 48 Vdc Power Converter Assembly	89-300025-002
48 Vdc Power Converter Enclosure Only	89-300025-000
48 to 24 Vdc Power Converter Module	89-100068-001
Battery Strap Kit for Seismic Zone 4 Installation	89-300036-001



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