

ORION XT Multi-Zone Power Supply



Effective: August 2013
K-77-154

FEATURES

- *UL Listed*
- *FM Approved*
- *ULC Listed*
- *CSFM Listed 7315-1076:165*
- *NYC MEA Approved MEA 59-02-E*
- *120 or 240 Vac Input*
- *4 Amps at 24 Vdc Output*
- *Up to 24 hours Battery Backup*
- *Integral Battery Charger*
- *Fully Supervised*
- *UL 1481 Listed as an Auxiliary Fire Alarm System Power Supply*

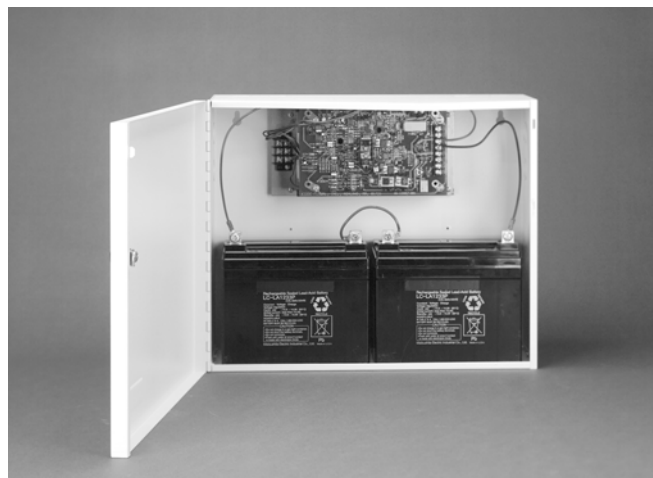
DESCRIPTION

The ORION™ XT Multi-Zone Power Supply provides supervised 24 Vdc power with 24-hour backup for ORION XT 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 ORION XT Multi-Zone Power Supply consists of an enclosure with a power supply/battery charger and two 33 Ah, 12 VDC sealed lead-Acid batteries. This will provide power with 24 hours battery backup for up to four ORION XT detectors. If the Secondary Battery Backup Assembly is also used, it will provide battery backup for up to eight ORION XT 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 ORION XT 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 powder-coat paint. Battery connection cables are shipped with the enclosure.



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 ORION XT Manual, 06-2356005-401 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 Battery
Termination:	¼-in. ring lugs
Dimensions:	7.75-in. W x 6.4-in. H x 5.2-in. D (19.7 cm W x 16.3 cm H x 11.7 cm D)
Shipping Weight:	26 lb (11.8 kg)

ENCLOSURE TECHNICAL SPECIFICATIONS

Dimensions:	17.25-in. W x 14-in. H x 6.25-in. D (43.8 cm W x 35.6 cm H x 15.9 cm D)
Shipping Weight:	12.1 lbs (5.5 kg)

ORDERING INFORMATION

Component	Part Number
Multi-Zone Power Supply/Battery Enclosure Only	297107
Multi-Zone 120/240 Vac Power Supply Module Only	297106
One 33 AH, 12 Vdc Sealed Lead Acid Battery	89-100052-001

Note: To order a complete Multi-Zone Power Supply Kit, order (1) Multi-Zone Enclosure, P/N 297107; (1) Multi-Zone Power Supply, P/N 297106; and (2) 12 Vdc batteries, P/N 89-100052-001.

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, INC., Ashland, MA 01721. Telephone: (508) 881-2000.