

Features

- 24VDC, 5A Auxiliary Power Supply
- Compatible with a wide range of accessories to meet most power supply needs
- AC/battery power management
- Low AC line detection
- Ground fault indication
- Five local status display LEDs
- Terminals fully protected against ESD and lightning transients
- Connections for trouble relays

Description

The Radionics D9079 Auxiliary Power Supply is UL-Listed to be used in commercial fire alarm applications. This regulated power supply provides up to eight amps of power which is used to recharge batteries and operate both continuous and intermittent alarm loads. Three amps of power is allocated to recharging batteries and five can be used for auxiliary functions. This five amps of power is provided by two "power-limited" outputs, each supplying up to 2.5 amps each.

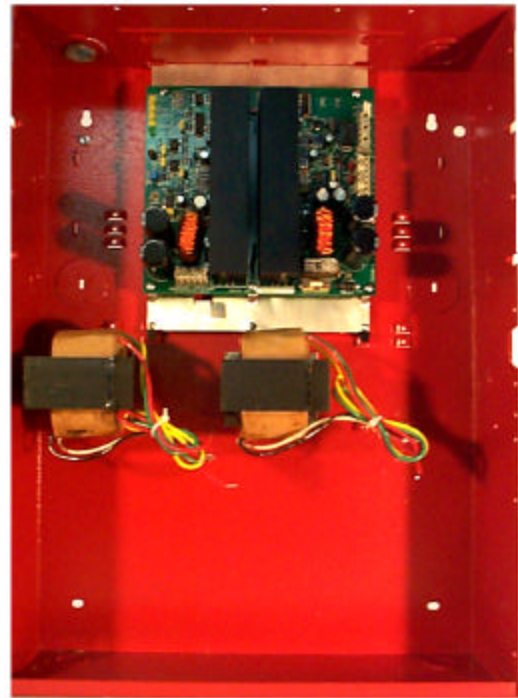
The D9079 is shipped in a red enclosure that houses the power supply board, transformer and stand-by batteries. Ample room is provided inside the enclosure to make AC power connections and route field wiring to connection points on the power supply board. All wiring is connected to the power supply via screw terminals that can accept up to 14 gauge wire.

The D9079's microprocessor-based design provides precise control of its operation. Its output is regulated at 24.0VDC under all AC and charged battery conditions until the battery is depleted to 21.3V. This makes the D9079 compatible with a wide range of auxiliary powered fire alarm accessories. Auxiliary loads are switched to its stand-by batteries when the AC input fails, or during a brown-out condition when the AC voltage drops below 102VAC. AC status is displayed by a green power LED and activates a trouble relay.

The D9079 supervises all of its operational features and displays their status with easy-to-understand LED indicators. LED indicators are provided for the following conditions (LED color in parentheses): AC Power (green), Low Battery (Yellow), Battery Not Charging (Yellow), Charging Output Failure (Yellow), Earth Ground Fault (Yellow).

A four-pin Remote Trouble LED header allows the Power and Trouble LED's to be displayed off-board on the front door of the enclosure.

A Form "C" trouble relay provides indication of trouble conditions, and can be connected to a supervised input to the FACP. The trouble relay is rated at one amp at 30VDC.



D9079 5A Auxiliary Power Supply

Application

The D9079 Auxiliary Power Supply can be used to provide additional power for all Radionics Fire Alarm Control Panels (FACP). When used with the D9024 and D10024 Analog FACP's, the D9079 can be used as an upgrade for the control panel's power supply.

The regulated output is a continuous output that can be used with a wide range of auxiliary power devices or notification appliances. When providing power to notification appliances, an appropriate supervising and activation module must be used. When used to provide power to fire accessories, such as door holders or fire sensors, appropriate control relays must be used.

Installation

The D9079 power supply board, transformer and enclosure are shipped in one box. The D9079's enclosure should be mounted in a convenient location for servicing and maintenance. The power supply board must be mounted in the enclosure using the provided hardware.

Primary power (120VAC) from an unswitched dedicated branch circuit is routed to the power supply enclosure and connections are made to the transformers inside. Field wiring to control modules or continuously powered devices are routed into the enclosure via knock-outs provided on the enclosure.

When all circuits are determined to be free of earth grounds and wire-to-wire shorts, connect primary power to the supply. then install the batteries in the locations provided in the enclosure.

Specifications

AC Line Input	
Line Voltage	120VAC
Line Voltage Range	+10% / -15%
Line Voltage Frequency	60/50Hz
Line Current	3A max.

Battery Input	
Type	Sealed lead acid
Battery Voltage (Nominal)	24VDC
Recharge Capacity	6 - 72AH

Two 24V Outputs	
Output Voltage	24VDC +2V / -0V
Rated Output Current	2.5A each
Ripple Voltage	350mV _{pp} max.

Battery Charger Output	
Output Voltage	27.4V nominal @ 20°C (68°F)
Rated Charge Current	3A
Ripple Voltage	500mV _{pp} max.

Fault Relay Output	
Contact Type	Form C
Contact Rating	1A, 30VDC
Fault State	De-energized

Environment	
Temperature	-5 to 50°C (-23 to 122°F)
Humidity	90% (non-condensing)

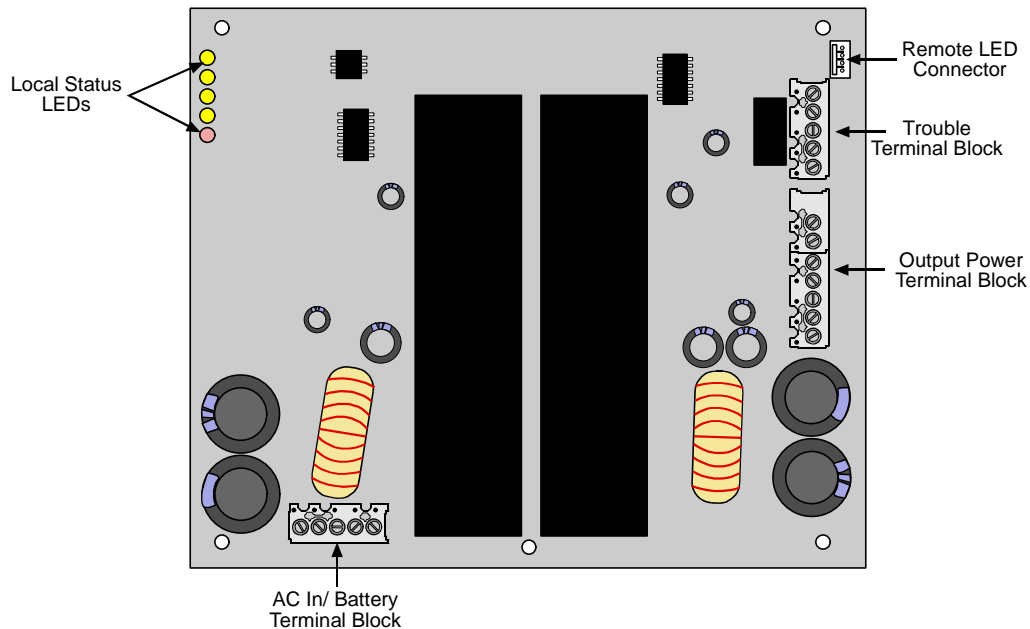
Enclosure	
Width	14.8 in. (38 cm)
Height	20.4 in. (52 cm)
Depth (without door)	4.1 in. (10.4 cm)
Weight	5 lb.

Ordering Information

Model/Part Number	Description
D126	12V, 7Ah Battery
D1224	12V, 24Ah Battery
D1238	12V, 38Ah Battery
D9079	5A Auxiliary Power Supply

Approvals and Listings

- UL 864
- CSFM (submitted)
- NY-MEA (submitted)



D9079 5A Auxiliary Power Supply Board

ISO 9002

 CERTIFICATE NO. A5137