



AQR3-1R Power Supply

The AQR3-1R power supply with battery charger/backup and supervision is a dual voltage switching power supply with a fire transfer relay that uses any AC power source from 90-240VAC to provide up to 3 Amps @ 12VDC or 1.5 Amps @ 24VDC total output.

FEATURES:

- Clean, steady, accurate power output for best performance of access control equipment
- Field-selectable dual voltage 3A/1.5A @ 12/24VDC
- Compact modules for smaller footprint
- Universal transformer compatible with most international power
- Works in AC brownout down to 60 VAC
- Faster battery recharging under full load
- Automatic low-battery disconnect prevents deep discharge, maintains battery life
- Self-resetting circuit breakers for common conditions including:
 - Overcurrent
 - Thermal runaway
 - Reverse battery hookup
- Class 2 power limited output with LED status indicator
- Fire Transfer Relay
 - Normally ON and Normally OFF output
 - Power shifts from ON output to OFF output when triggered
 - Latching or Non-latching mode
 - LED trigger status indicators
 - Multiple ways to trigger
 - Provides ground fault detection
- Fuse protected against surge for AC input and DC output
- SPDT Form C outputs for remote monitoring of:
 - AC failure
 - Low battery
 - Trigger status
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL and ULC Listed

SPECIFICATIONS: AQD3-1R

Power Module: AQD3

Electrical

Input Voltage Operating Range

90-240VAC

47-63Hz

Maximum Output Voltage

36 VA

3 Amps @ 12VDC

1.5 Amps @ 24VDC

Continuous Output Voltage

33.5 VA

2.8 Amps @ 12VDC

1.4 Amps @ 24VDC

Voltage Range

9.8 – 13.7VDC/ 13.65 typical

20.0 – 27.5VDC/ 27.3 typical

Operating Frequency

66KHz

Onboard Power Output

One (1) Class 2 Power Limited

Fuse Protection

AC fuse: GMA-2 2 Amp

Battery: PTC 3 Amp

Current Overload: PTC, self-resetting

Thermal Runaway: PTC, self-resetting

Supervision/Monitoring

AC ON LED indicator: 6mA

DC ON LED indicator: 6mA

AC Fail notification: SPDT Form C 2 Amp

Low Battery: SPDT Form C 3 Amp

Regulatory

UL 294

UL 603

ULC-S318-96

ULC-5533-02

RoHS lead free

Fire Transfer Relay: -1R

Electrical

Board power with no output load: 70mA

Output: 2 output terminal blocks

- 1 Normally ON

- 1 Normally OFF

Output Wire Gauge

10-28AWG*

Supervision

Trouble/Triggered Form C: 3A

Trigger Status LED: 6mA

Relay

Input Trigger OVR: Normally Closed 14-28AWG

Input Trigger AUX-IN: Normally Closed 14-28AWG

EOL Trigger:

Input: 2.2K ohms

Trigger: +/- 60% resistance on wire pair

Reset Input: 14-28AWG

Transfer Relay: Rated 12Amps max

Mechanical

Dimensions

Enclosure: 14"x 9" x 3.5"

Power Board: 3.73"x 4.84" x 2"

Mounting: 3.41" x 4.5"

Fire Transfer Relay: 2.23" x 3.75" x .8"

Mounting: 1.89" x 3.41"

Shipping Weight: 7.87 lbs

*Use gauge appropriate for output voltage and wiring distance.



SUPERVISION



BATTERY BACKUP



AMPERAGE



DUAL VOLTAGE



LISTED