



AQRD3-8F8R Power Supply

The AQRD3-8F8R 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/43-63Hz 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 international power, operates 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
- Eight (8) channel power distribution with access control and fire transfer relays
 - Channels individually configurable to enable/disable with fire trigger
 - Heavy duty relay per output with status LED, or group outputs by jumper
 - Can provide dry contacts, Normally Open/Normally Closed selected via jumper
 - Individual input for each output
 - Power-limited, fuse-protected outputs, each with a green status LED indicator
 - Main power LED indicates input power status
 - Trigger LED indicates Fire Relay status
 - Pluggable terminal blocks by channel and function
- Fuse protected against surge for AC input and DC output
- SPDT Form C outputs for remote monitoring of: AC failure, Low battery
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL Listed

SPECIFICATIONS: AQD3-8F8R

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

RoHS lead free

Access Control Module: -8F8R

Electrical

Universal 11-29VDC operation

Max board power use: 208mA

Output Wire Gauge Range

14-22AWG*, 5mm spacing

Fuses

Size: 050 Standard 3AGC

Output: .5A

Relays

Input Relays: 20ma required for activation

Output Relays: contacts rated 7A 125VAC max

Triggers

EOL: +/-60% of 2.2K ohms

Mechanical

Dimensions

Enclosure: 14" x 9" x 3.5"

Power Board: 3.73" x 4.84" x 2"

Mounting: 3.41" x 4.5"

Module: 4.82" x 3.84" x 1.4"

Mounting: 3.4" x 4.5"

Shipping Weight: 7.65 lbs

*Use gauge appropriate for output voltage and wiring distance.

