



AQR5-8F8R Power Supply

The AQR5-8F8R 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 5 Amps @ 12VDC or 3 Amps @ 24VDC total output.

FEATURES:

- Clean, steady, accurate power output for best performance of access control equipment
- Field-selectable dual voltage 5A/3A @ 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
- Eight (8) channel power distribution with access control
 - Fire Transfer Relays
 - Channels individually configured to FT Enabled/Disabled
 - Power limited fuse protected outputs, each with a green status LED indicator
 - Main power green/red LED indicates AC, DC or Reversed DC input
 - Main fuse/power pull to disconnect board from input power
 - 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
 - Trigger status
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL and ULC Listed

SPECIFICATIONS: AQD5-8F8R

Power Module: AQD5

Electrical

Input Voltage Operating Range

90-240VAC
47-63Hz

Maximum Output Voltage

72 VA
6 Amps @ 12VDC
3 Amps @ 24VDC

Continuous Output Voltage

60 VA
5 Amps @ 12VDC
3 Amps @ 24VDC

Voltage Range

9.8 – 13.8VDC/ 13.65 typical
19.6 – 28VDC/ 27.3 typical

Operating Frequency

132KHz

Onboard Power Output

One (1) Class 2 Power Limited

Fuse Protection

AC fuse: GMA-2 2 Amp
Battery: PTC 6 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: 6.05" x 3.87" x .2.28"
Mounting: 4.5" x 3.41"

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.

