



AQR3-8C Power Supply

The AQR3-8C power supply with battery charger/backup is a dual voltage switching power supply 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 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
 - Power limited PTC protected outputs, each with a green status LED indicator
 - Main power green/red LED indicates AC, DC, or Reversed DC input
 - Main power/power pull to disconnect board from input power
- 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 and ULC Listed

SPECIFICATIONS: AQD3-8C

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

Distribution Board: -8C

Electrical

PTC Circuit breakers hold current at 130°F

Output Terminal Block Rating

40A

Output Wire Gauge Range

10-28AWG*

Maximum Output Per Channel

8 channels @ 0.35A/channel

Fuses

Output: PTC .35A/channel

Holds current at 130°F

Main Fuse/Power Pull: 5A ATO

Mechanical

Dimensions

Enclosure: 14"x 9" x 3.5"

Power Board: 3.73"x 4.84" x 2"

Mounting: 3.41" x 4.5"

Distribution Board: 3.87" x 4.84" x 1"

Mounting: 3.41" x 4.49"

Shipping Weight: 8.10 lbs

*Use gauge appropriate for output voltage and wiring distance.

