

ACCUPOWER® SERIES



AQD3-8C1R Power Supply

The AQD3-8C1R 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 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:
 - o Overcurrent
 - o Thermal runaway
 - o Reverse battery hookup
- Class 2 power limited output
- Eight (8) channel power distribution with fire relay trigger
 - o Channels individually selectable to ON/OFF/Always ON in response to fire relay
 - o Power limited protected outputs, each with a green status LED indicator
 - o Main power green/red LED indicates AC, DC or Reversed DC input
 - o Main fuse/power pull to disconnect board from input power
 - o Latching or non-latching
- Fuse protected against surge for AC input and DC output
- SPDT Form C outputs for remote monitoring of:
 - o AC failure
 - Low battery
 - Trigger status
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL and ULC Listed

SPECIFICATIONS: AQD3-8C1R

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

Distribution Board: -8C1R

Electrical

Board power use with no load: 90-160mA

Maximum Output Per Channel

8 channels @ 1.23A/channel, Power Limited

Supervision

Trouble/Triggered Form C: 2A

Green LED per channel

Fuses

Output: PTC 1.23A/channel Holds current at 130°F

Main Fuse/Power Pull: 15A ATO

Relay

Reverse Polarity Trigger:

Input: 30VDC max Voltage Trigger: +/-20% input voltage

EOL Trigger:

Input: 2.2K ohms

Trigger: +/- 50% resistance on wire pair

Transfer Relay: 15Amps 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: 4.84" x 3.88" x .75"

Mounting: 3.41" x 4.50"

Shipping Weight: 8.10 lbs









