



## AQD5-8C Power Supply

The AQD5-8C 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 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
  - 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: AQD5-8C

## 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 – 13.7VDC/ 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  
CAN/ULC-S533-02

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 @ 0.72A/channel

#### Fuses

Output: PTC .72A/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.

