



## AQR3 Switching Power Supply

The AQR3 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
- 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 with a green LED status indicator
- 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

## 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

## Environment

Operating Temperature: -4 to +104°F  
[-20 to +40°C]  
Humidity: 95% RH non condensing

## Mechanical Dimensions

Enclosure: 14"x 9" x 3.5"

Power Board: 3.73"x 4.84" x 2"

Mounting: 3.41" x 4.5"

Shipping Weight: 7.65 lbs

## Regulatory

UL 294  
UL 603  
ULC-S318-96  
  
RoHS lead free

