



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

