



## AQU243-8F8R Power Supply

The AQU243-8F8R power supply with battery charger/backup and supervision is a single voltage power supply that uses any AC power source from 90-240VAC/47-63Hz to provide up to 3 Amps @ 24VDC continuous output.

### FEATURES:

- Clean, steady, accurate power output for best performance of access control equipment
- 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
- Fuse protected against surge for AC input and DC output
- Class 2 power limited output
- Eight (8) channel power distribution with Access Control
  - Fire transfer relays with individual inputs and status LEDs
  - Each relay input activated from Low Current Open Collector, Normally Closed or Normally Open switch
  - Channels individually configured to FT Enabled/Disabled
  - Power limited fuse protected outputs, each with a green status LED indicator
  - Main power green/red LED indicates AC, DC or Reversed DC input
  - Pluggable terminal blocks by channel and function
- SPDT Form C output for remote monitoring of:
  - AC failure
  - Low battery
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL Listed

# SPECIFICATIONS: AQU243-8F8R

## Power Module: AQU243

### Electrical

#### Input Voltage Operating Range

90-240VAC  
47-63Hz

#### Maximum Output Voltage

79.2 VA  
3.3 Amps @ 24VDC

#### Continuous Output Voltage

72 VA  
3 Amps @ 24VDC

#### Voltage Range

9.8 – 13.67VDC/ 13.65 typical

#### Operating Frequency

27KHz

#### Onboard Power Output

One (1) Output

#### Fuse Protection

Battery: 3 Amp  
Current Overload: Fuse, self-resetting  
Thermal Runaway: Fuse, 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

## Access Control: -8F8R

### Electrical

Max board power use: 208mA

#### Maximum Output Per Channel

8 channels @ .5A/channel

#### Fuses

Size: 050 Standard 3AGC  
Output: .5A

#### Relays

Input Relays: 20ma required for activation  
Output Relays: contacts rated 7A 125VAC max

#### Triggers

EOL: +/-60% of 2.2K ohms

## Mechanical

### Environment

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

### Dimensions

Enclosure: 14"x 9" x 3.5"

Power Board: 6.4" x 3.95" x 2.35"  
Mounting: 5.36" x 3.54"

Access Control Module: 4.82" x 3.84" x 1.4"  
Mounting: 3.41" x 4.50"

Shipping Weight: 7.65 lbs

\*Use gauge appropriate for output voltage and wiring distance.

## Regulatory

UL 294  
RoHS lead free

