



## AQU243-8C1R Power Supply

The AQU243-8C1R power supply with battery charger/backup and supervision is a single voltage power supply with a fire transfer relay that uses any AC power source from 90-240VAC/47-63Hz to provide up to 3 Amps @ 12VDC 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
- Eight (8) channel power distribution with fire relay trigger
  - Channels individually selectable to ON/OFF/Always ON in response to fire relay
  - Power limited protected outputs, each with a green status LED indicator
  - Main power green/red LED indicates AC, DC or Reversed DC input
  - Main fuse/power pull to disconnect board from input power
  - Latching or non-latching
- SPDT Form C output for remote monitoring of:
  - AC failure
  - Low battery
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL and ULC Listed

# SPECIFICATIONS: AQU243-8C1R

## Power Module: AQU243

### Electrical

#### Input Voltage Operating Range

90-240VAC  
47-63Hz

#### Maximum Output Voltage

79.2 VA  
3.3 Amps @ 12VDC

#### Continuous Output Voltage

72 VA  
3 Amps @ 12VDC

#### Voltage Range

9.8 – 13.67VDC/ 13.65 typical

#### Operating Frequency

27KHz

#### Onboard Power Output

One (1) Output

#### Fuse Protection

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  
RoHS lead free

## Distribution Board: -8C1R

### Electrical

PTC Circuit breakers hold current at 130°F

#### 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: 20A 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

### 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 Module: 6.4" x 3.95" x 2.35"  
Mounting: 5.36" x 3.54"

Fire Transfer Relay: 3.88" x 4.84" x .75"  
Mounting: 3.41" x 4.50"

Shipping Weight: 7.65 lbs

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

