



## AQU244-16C16R Power Supply

The AQU244-16C16R 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 4 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
- Auto-sensing variable speed smart fan
- Power module has ON/OFF switch to disconnect DC output from power
- Sixteen (16) channel power distribution with Access Control and fire relays
  - Channels individually configurable to enable/disable with fire trigger
  - Heavy duty relay per output with status LED, or group outputs by jumper
  - Individual input for each output
  - Power-limited, PTC-protected outputs, each with a green status LED indicator
  - Main power LED indicates input power status
  - Trigger LED indicates Fire Relay status
  - Pluggable terminal blocks by channel and function
- SPDT Form C output for remote monitoring of trouble: AC failure, Low battery, or over voltage
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL Listed

# SPECIFICATIONS: AQU244-16C16R

## Power Module: AQU244

### Electrical

#### Input Voltage Operating Range

90-240VAC  
47-63Hz

#### Maximum Output Voltage

120 VA  
5 Amps @ 12VDC

#### Continuous Output Voltage

96 VA  
4 Amps @ 12VDC

#### Voltage Range

9.8 – 13.67VDC/ 13.65 typical

#### Operating Frequency

23KHz

#### Onboard Power Output

One (1) Output with ON/OFF switch

#### Fuse Protection

Battery: PTC 4 Amp  
Current Overload: PTC, self-resetting  
Thermal Runaway: PTC, self-resetting

#### Supervision/Monitoring

AC ON LED indicator: 6mA  
DC ON LED indicator: 6mA  
Trouble notification: SPDT Form C 200mA  
120VAC

### Regulatory

RoHS lead free

## Access Control: -16C16R

### Electrical

Max board power use: 208mA

#### Maximum Output Per Channel

16 channels @ 1.04A/channel 24V

#### Fuses

Output: PTC 1.04A/channel  
Holds current at 130°F

#### Relays

Input Relays: 20ma required for activation  
Output Relays: contacts rated at 2A 120VAC 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 14" x 4.75"

Power Board: 7.4" x 3.95" x 2.35"  
Mounting: 3.5" x 6.8"

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

Shipping Weight: 12.5 lbs



SUPERVISION



BATTERY BACKUP



AMPERAGE



VOLTAGE



LISTED