



AQU244-16F16R Power Supply

The AQU244-16F16R 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 @ 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
- 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
 - Channels individually configurable to enable/disable with fire trigger
 - Heavy duty relay per output with status LED, or group outputs by jumper
 - Can provide dry contacts, Normally Open/Normally Closed selected via jumper
 - Individual input for each output
 - Power-limited, fuse-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: AQU244-16F16R

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: 4 Amp
Current Overload: Fuse, self-resetting
Thermal Runaway: Fuse, self-resetting

Supervision/Monitoring

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

Regulatory

UL 294

RoHS lead free

Access Control: -16F16R

Electrical

Max board power use: 208mA

Maximum Output Per Channel

16 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 14" x 4.75"

Power Board: 7.4" x 3.94" 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: 12.5lbs

*Use gauge appropriate for output voltage and wiring distance.

