



AQU244-8C1R Power Supply

The AQU244-8C1R 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 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
- 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 trouble: AC failure, Low battery, or over voltage
- Made in USA
- MagnaCare Lifetime Replacement No Fault Warranty
- UL Listed

SPECIFICATIONS: AQU244-8C1R

Power Module: AQU244

Electrical

Input Voltage Operating Range

90-240VAC
47-63Hz

Maximum Output Voltage

120 VA
5 Amps @ 24VDC

Continuous Output Voltage

96 VA
4 Amps @ 24VDC

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

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 14" x 4.75"

Power Module: 7.4" x 3.94" x 2.35"
Mounting: 3.5" x 6.8"

Distribution Board: 3.88" x 4.84" x .75"
Mounting: 3.41" x 4.50"

Shipping Weight: 12.5 lbs

*Use gauge appropriate for output voltage and wiring distance.

