

6 & 12 amp, -48 VDC Rectifiers

Key Features

- **High Frequency Technology**—up to 12 amps of power in 5.25" (13.34cm) of vertical rack space
- **Inaudible Operation**—installs anywhere
- **High Operating Efficiencies**—provide long-term energy savings
- **Lightweight Design**—simplifies installation
- **UL Listed**—compliance to local codes

Description

The Lorain® model A6F50 and A12F50 rectifiers provide -48 VDC, 6 or 12 amp power for a broad range of applications. High frequency design means more power in less space with quiet operation. Because these units are quiet, they can be installed near the equipment they power, eliminating long, costly wire runs and inconvenient remote monitoring. Smaller magnetic units reduce space requirements and ease floor loading.

These standard features assure long equipment life and simplified operation. Paralleling provides added capacity and load sharing capability. Selective high voltage shutdown increases rectifier reliability and is activated in the event of a failed unit in a paralleled system. These rectifiers can be started under low or dead battery conditions.

LED indicators on the front panel clearly signal power-on status, rectifier failure, high voltage shutdown, rectifier failure, and fuse alarm conditions. An analog meter is also provided.

Application

These units are ideal for microwave sites, remote huts, small remote exchange offices and special service applications with restricted space.

Accessories

Equalize Charge Timer Panel

Manual or automatic timer panels control up to eight rectifiers over a 99 hour adjustment range.

19" (48.26cm) mounting, part number 484383500

23" (58.42cm) mounting, part number 484382500

Low Voltage Disconnect Panel

Senses low battery voltage condition and disconnects battery to prevent battery and system damage.

19" (48.26cm) mounting, part number 437711300

23" (58.42cm) mounting, part number 437711800

High/Low Voltage Alarm Circuit

Provides one set of form contacts that are field adjustable to meet your requirements, part number 486314400.

Heat Baffles

It is necessary to allow 3.5" (8.89cm) and a heat baffle between rectifiers and other heat producing equipment.

19" (48.26cm) mounting, part number 377761400

23" (58.42cm) mounting, part number 377761500



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Specifications

Inputs

Voltage:

120 (88-132) VAC, single phase

208/240 (176-264) VAC, single phase

Frequency: 47-63 Hz

Protection: Circuit breaker, AC line

Output

Float/Equalize Voltage: 48 (48.3-58.0) VDC, adjustable

Current:

Model A6F50 — 6 amps

Model A12F50 — 12 amps

Regulation: Steady-state $\pm 1/2\%$ within range of 48.3 to 58.0 volts from no load to full load over the specified input voltage and frequency ranges.

Filtering: Voice band noise less than 22dBnC with or without battery.

Protection: Current limiting to protect the rectifier in the event of overload.

High voltage shutdown circuit causes shutdown if output voltage exceeds the predetermined (adjustable) value.

Model A6F50 — 10 amp fuse, DC load

Model A12F50 — 20 amp fuse, DC load

Environmental

Noise: Inaudible (less than 45dB, A message weighting)

Operating Temperature: 0° C to +50° C (+32° F to +122° F)

Storage Temperature: -40° C to +85° C (-40° F to +185° F)

Humidity: 0-95% relative humidity

Physical Characteristics

Mounting: This rectifier is furnished with reversible mounting angles for 19" (48.26cm) or 23" (58.42cm) mounting.

Connections:

Input/Output — Tubular screw contact, barrier terminal

Alarm — 6-32 screw type, barrier terminal strip

Dimensions:

Height: 5.25" (13.34cm)

Width: 19" (48.26cm) adaptable to 23" (58.42cm)

Depth: 13.06" (33.18cm)

Weight:

Model A6F50 — Net 19.5 lbs. (8.85 kgs),

Shipping 22.5 lbs. (10.21 kgs)

Model A12F50 — Net 23 lbs. (10.43 kgs),

Shipping 26 lbs. (11.79 kgs)

Additional Information

For additional specification, engineering and installation information, request the following:

Specify model A6F50, spec. number 535101400 (6 amp).

Specify model A12F50, spec. number 537102600 (12 amp).



www.marconi.com/power

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