

25 amp, -48 VDC Rectifier

Key Features

- **High Frequency Technology**—25 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 A25F50 rectifier provides -48 VDC, 25 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. 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 system reliability with a built-in overvoltage shutdown circuit which is activated by a predetermined setting. An automatic low output current test feature provides continuous monitoring to detect a low output current condition by the rectifier. Float/equalize operation can be controlled remotely. This battery/charger can be started under low or dead battery conditions.

LED indicators on the front panel clearly signal power-on status, rectifier failure, high and low voltage alarms, and equalize operation. An analog meter is also provided.

Application

These units are ideal for microwave sites, remote huts, CEVs, customer premise installations and special service applications.

Accessories

Equalize Charge Timer Panel

Manual or automatic timer panel controls up to eight rectifiers over a 99 hour adjustment range.

19" (48.26cm) mounting, part number 484383500

23" (58.42cm) mounting, part number 484383700

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

Heat Baffles

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

A maximum of four rectifiers can be stacked.

19" (48.26cm) mounting,

part number 377761400

23" (58.42cm) mounting,

part number 377761500



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Specifications

Inputs

Voltage: 120 (95-127) VAC, Single Phase

208/240 (184-254) VAC, Single Phase

Frequency: 47-63 Hz

Protection: Circuit breaker, AC line

Output

Float/Equalize Voltage: 48.0 (48-58) VDC, adjustable

Current: 25 amps

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

Filtering: Voice band noise less than 32dBnC without battery and less than 22dBnC on batteries of 100 amp-hours or greater capacity.

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.

30 amp circuit breaker is located in the negative output lead.

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

Mechanical

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

Connections:

Input — Tubular screw contact, barrier terminal

Output — Solderless screw type

Alarm — 6-32 screw type, barrier terminal strip

Dimensions:

Height: 5.22" (13.26cm)

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

Depth: 14.75" (37.47cm)

Weight: Net 39 lbs. (17.73 kgs)

Shipping 42 lbs. (19.05 kgs)

Additional Information

For additional specification, engineering and installation information, specify model A25F50, spec. number 541105500.



www.marconi.com/power

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