

Power Solutions



10-346

# AGM 48V/7.5A RECTIFIER

HFM 48AC7.5



The AGM 48V / 7.5A is a switched mode rectifier module designed to provide up to 7.5 amps of output current in a -48V nominal system. This rectifier is designed for use in conjunction with a battery to provide an uninterruptible DC power system.

The AGM 48V / 7.5A rectifier is configured into a system using the AGM 15, AGM 25, AGM 45, or AGM 60 power plant. When combined with these plants the result is a feature-rich and cost-effective solution for telecommunication applications.

#### **UNIT SPECIFICATIONS**

### Mechanical

	AGM 48V/7.5A Rectifier
Height	5.0 in (12.7 cm)
Width	2.5 in (6.4 cm)
Depth	11.0 in (27.9 cm)
Weight	3.0 lbs (1.4 kg)

Mounting

The AGM 48V / 7.5A installs into the AGM 15, AGM 25, AGM 45, or AGM 60 power plant. All mounting hardware are integrated into these plants.

#### **Connections**

Input and output connections are located on the rear of the rectifier; matching connectors are located on the back plane of the AGM power plants; mating of connectors occurs when the rectifier is installed into the power plant.

Operating characteristics of the AGM 48V / 7.5A rectifier are at 77F (25C) ambient, 120Vac unless otherwise stated.

# Input

Voltage:

voltago.
Single Phase:Phase to Phase or Phase to Neutral
Rated Voltage Range:106-264 Vac
Power Factor:
Current:
2.6A RMS @ 208 Vac
2.1A RMS @ 240 Vac

Power Factor: Harmonic Distortion: Efficiency:Be Inrush Current:	
Voltage Withstand Test: 600	input fuse on each input line 00V / 3000A per ANSI / IEEE 2.41-1991 standards

Conversion Frequency: .......100 KHz for input stage 100 to 125 KHz for output stage

### Output

Voltage:

Static Regulation: .....+/- 0.5% from 0% to 100% load Noise: ....<250mV peak to peak (10Hz – 14MHz)

## **Load Sharing**

Better than 10% of full scale from 10% to 100% of load.

#### **Protection**

Hotpluggable – No surge when connection is made to live DC bus.

Overvoltage – Fixed shutdown at 60Vdc, only faulty unit shuts down.

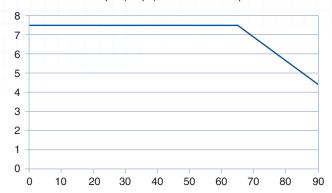
## **ALARMS AND MONITORING**

Front Panel LED Condition Table

'REM' Yellow	'EQL' Yellow	'NORM' Green	'RFA' Red	Condition
1	0	0	0	Remote Control
0	1	0	0	Equalize
0	0	F-1S	1	Low current
0	0	F–2S	1	OVP mode
0	0	F–3S	1	Primary power bad
0	0	F–4S	1	High Temp
0	0	F–1L	1	Fan alarm
0	0	F–2L	1	External Shutdown
0	0	F-1L/1S	1	RC voltage out of bounds
0	0	F-1L/2S	1	Load voltage out of bounds
0	0	F-1L/3S	1	High ambient temperature
0	0	0	0	Rectifier not seated
0	0	0	1	Fan fail

Note: F indicates flashing LED S indicates short flash Lindicates long flash **OVP-Over Voltage Protection** 

#### Output (Amps) vs. Ambient Temp



#### **Environmental**

Operating Range: ....-40F (-40C) to 149F (65C) Extended Operating Range: ..149F (65C) to 194F (90C) The rectifier will reduce its maximum output linearly from 100% to 58% as the ambient temperature increases from 149F (65C) to 194F (90C). The rectifier will turn off its output at 194F (90C). Operating Altitude: .... Operational to 7,000 ft (2,133 m)

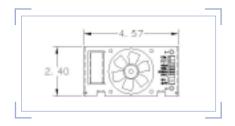
Consult factory above this Humidity: .....0 to 95%, non condensing

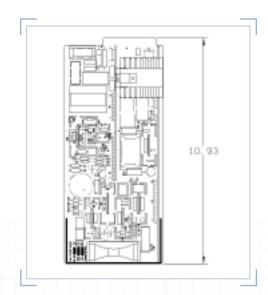
Cooling: .....Forced convection cooling Audible Noise: . .<55dBa @ 5 ft from any vertical surface

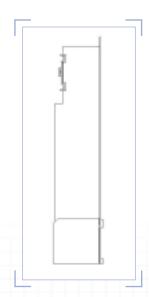
#### **Agency Compliance**

EMI / RFI: . . . . . . . . . FCC Part 15, Subpart J for Class A equipment, VDE-0875, Class N 

## **DIMENSIONS**







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