

10-965

COMPACT REMOTE POWER PLANT

AGM 60 -48 VDC, 7.5 to 60 Amps



CD's Technologies' AGM 60 compact remote power plant provides a total integrated solution for outside plant, fiber, PBX, microwave and general broadcast applications. Its compact size is ideally suited for applications where space is at a premium and those requiring smaller increments of -48 volt power.

The AGM 60 is a full feature plant and includes unique features such as a pullout distribution assembly that allows circuit breakers and/or fuses to be added without power interruption.

The AGM 60 is used in with the AGM 48V / 7.5A rectifier, an advanced 7.5 amp, modular high frequency switched-mode rectifier. The AGM 60 can be configured from 7.5 amps to 60 amps. (Refer to 10-346 for further rectifier specification information.)

CUSTOMER BENEFITS

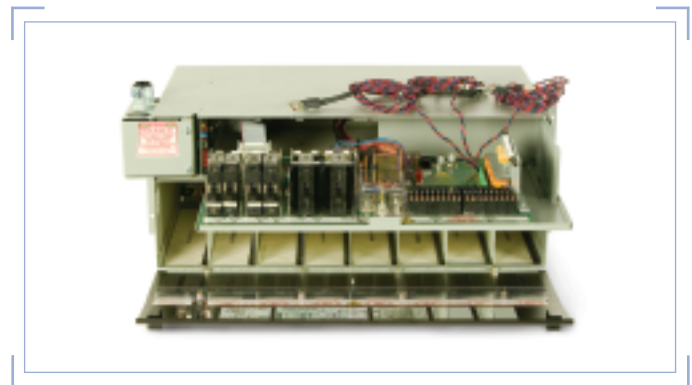
- Advanced battery functions extend battery life, reducing life cycle costs
- Advanced diagnostics enable quick diagnostics, reducing maintenance time
- Compact size saves rooms for revenue generating equipment
- Hot swappable rectifiers provides for easy maintenance and expansion
- Scalable system allows cost effective growth and expansion
- Dual AC feed provides for redundant power sourcing, increasing uptime
- Integrated battery disconnect reduces space requirements
- Pullout distribution assembly allows for easy wiring and expansion
- True front access simplifies installation and saving time
- A&B bus design allows for redundant feeds to critical equipment, increasing reliability
- Load shedding allows non-critical loads to be disconnected, extending uptime of critical equipment
- Common rectifier throughout all plants reduces inventory costs and training
- Hardened temperature design increases placement flexibility and reliability
- Global design with universal AC input minimizes design cost and inventory requirements

	Basic Plant List 1	Power Plant List 2	Power Plant List 3	Power Plant List 4	Power Plant List 5
Power Plant Chassis	•	•	•	•	•
Power Back plane	•	•	•	•	•
Rectifier Signal and Control Interface	•	•	•	•	•
Integral Distribution	•	•	•	•	•
Load Connections and Ground Returns	•	•	•	•	•
Test Jacks	•	•	•	•	•
Alarm LEDs and Contact Outputs	•	•	•	•	•
Microprocessor Based Plant Controller	•	•	•	•	•
Single Point Plant Adjustment	•	•	•	•	•
Advanced Alarm Features	•	•	•	•	•
Advanced Control Features	•	•	•	•	•
Battery Sleep Function	•	•	•	•	•
Battery Fail Detection	•	•	•	•	•
LVD - Battery Disconnect		•			
LVD - Load "A" Disconnect			•		•
LVD - Load "B" Disconnect				•	•

DISTRIBUTION

The AGM 60 power plant includes an advanced distribution design. The slide out distribution assembly provides access to a variety of distribution options and allows additions to be made without interrupting power to the load. All plants are equipped with 10 GMT fuse assemblies and are available with 2 optional AM1 breakers per "A" and "B" feeds. The A and B feeds increase reliability to critical loads.

	Feed "A"	Feed "B"
GMT Positions	10	10
AM1 Breakers (optional)	2	2



MONITOR AND CONTROL

Alarms

The AGM 60 power plant has extensive internal diagnostics and provides local indication as well as Form C contact outputs for the most common alarms.

Indication

Condition	Form C Contact	LED
AC Fail	•	•
Fuse Alarm	•	•
Minor Alarm	•	•
Major Alarm	•	•
LVD Alarm	•	•
Rectifier Fail	•	•
Coded Diagnostic		•

Control

The AGM 60 power plant provides advanced control functions such as Battery Sleep Mode and Battery Fail Detection. These features extend the life of the battery and increase the reliability of the system.

UNIT SPECIFICATIONS

Input

Input Voltage:106-264 Vac, Single Phase
 Input Current:

	Per Rectifier	AGM 60 (maximum)
@110 Vac	4.6 Aac	36.8 Aac
@208 Vac	2.6 Aac	20.4 Aac
@240 Vac	2.1 Aac	17.0 Aac

Frequency:45-65 Hz
 Power Factor:0.99 Typical

Output

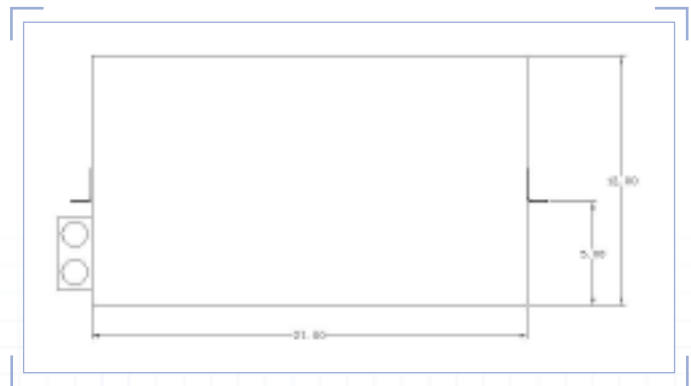
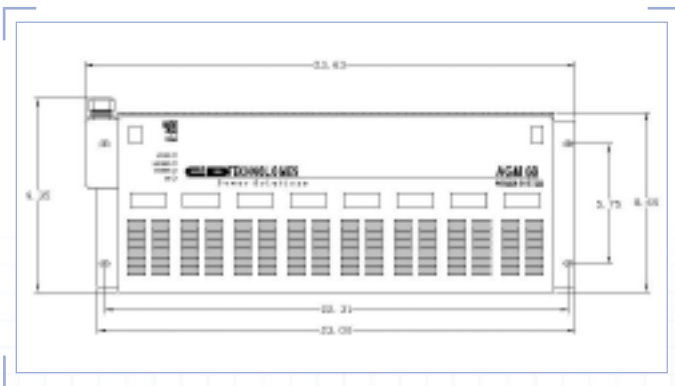
	Per Rectifier	AGM 60 (maximum)
Output Voltage	-48 to -60 VDC	
Total Current	7.5 Amps	60 Amps
Total Power	450 watts	3,600 watts

Ripple:<250mV, peak-to-peak @ 20 MHz
 Noise:32 dBmC max

Mechanical

	AGM 60
Height	8.8 in (22.2 cm)
Width	23.0 in (58.4 cm)
Depth	12.0 in (30.5 cm)
Weight	41.0 lbs (91.8 kg)

DIMENSIONS



Environmental

Operating Range:-40F (-40C) to 149F (65C)
 Extended Operating Range: . . .149F (65C) to 194F (90C)
 Storage:-58F (-50C) to 185F (85C)
 Heat Dissipation (Maximum): 1,951 BTU / HR (at 45 Adc)
 Cooling:Forced convection cooling
 Humidity:0 to 95%, non condensing
 Operating Altitude:0 to 7,000 ft (0 to 2,133 m)
 Seismic:BELLCORE Zone 4
 Audible Noise:<62 dBa @ 2 ft

Agency Compliance

EMI / RFI:FCC Part 15, Subpart J for Class A equipment, VDE-0875, Class N
 Safety:UL1950
 Surge:Exceeds ANSI / C62.41 1980

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