



EDAC PB20 Power Supply Battery Backup Rev 3.0

User Manual

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SPECIFICATIONS

Input	90-264 VAC - 47-63Hz
Output	13.8 VDC – 2.8A Continuous - 50W
Battery Backup	Maintenance Free Sealed Lead-Acid Battery
Output	12V 5.0Ah
	20 Hours @ 60mA
	10 Hours @ 110mA
	1 Hour @ 720mA
	Typical EDAC dialer will be active for 6 hours
Charge	Approx. 24 hours from full discharge with no other load.
Load Regulation	±0.5%
Ripple	<120mV p-p (max)
Protection	Over load - %105 - %150 rated output power Over voltage - Hiccup mode (self recovers)
Ambient Temperature	-10 - +60 °C
MTBF	589.7k hours minimum
Alarm Outputs	'Mains Fail' and 'Battery Critical' outputs
	TTL Logic
	Mains Fail = N/Closed
	Batt Low = N/Open

These Specifications are subject to change without notice.

PB20 Operating Instructions

Description

The PB20 is designed to be used with EDAC products. The unit produces a continuous output of 13.8V DC at loads up to 4A. During mains fail the internal battery can maintain operation for periods from one hour upwards depending on load. The 13.8V output is electrically regulated, providing a constant voltage over the 0 to 4A output current range and providing standby charging of the battery.

Installation and connection

1. The PB20 is a totally enclosed unit designed for wall mounting or for use in a larger system. When housed in a larger cabinet, adequate ventilation should be provided.

2. **ALWAYS** remove mains AC power before removing the cover, **DO NOT** power the unit before refitting the cover. The EDAC PB20 has exposed mains terminals inside the casing. Failure to remove mains before opening the cover may result in **severe electric shock**.
3. All wiring should pass through the appropriate plastic glands in the sides of the unit.
4. Connect the load equipment to the DC Output terminals ensuring the polarity is correct. (As described in the diagram). Connect the battery terminals (unit ships with battery disconnected) ensure correct polarity (Red = Positive, Black = Negative).
5. Connect Alarm Outputs if required. If Alarm Outputs are used with EDAC Auto dialer, SMS Controller or RTU products, the input must be configured as Pull Down and Normally Closed.
6. Apply power and check for the correct operation of the attached equipment.
7. Ensure that the cover is refitted to prevent accidental shock and to ensure that the battery is held firmly.
8. If the supply cord of this unit is damaged the unit must be returned to the manufacturer or agent for the cord to be replaced.
9. The battery should **NEVER** be left discharged, especially in hot weather. The battery should be recharged as soon as possible after discharge to maximize operational life. Any battery left discharged for longer than 24-48 hours will begin to suffer severe loss of capacity and should be replaced.

