

Battery Backup System for Customer Premise Installations



Carrier Access Corporation's Customer Premise Equipment (CPE) Battery Backup System provides an economical, uninterruptible power source for CAC products. It offers four to eight hours of battery backup and provides a low-cost, low-maintenance solution to increase carrier reliability. And like all product solutions from CAC, the Battery Backup System can be wall or rack mounted, using a minimum of space.

Operational Description:

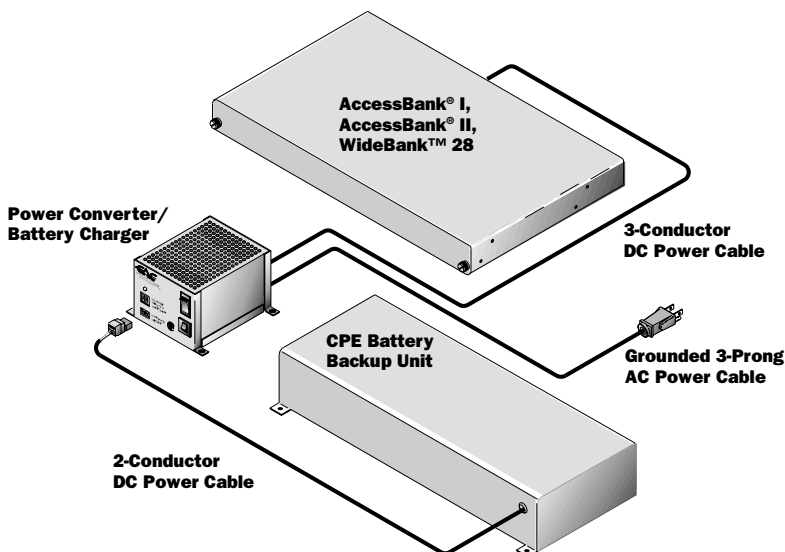
CAC's CPE Battery Backup System is comprised of two individual components: the Power Supply/Battery Charger and the Battery Unit. Together, the system continuously supplies -48VDC power to the attached CAC product, while simultaneously trickle-charging the sealed rechargeable lead-acid batteries. Thus, product operation will not be affected in the event of 120 Vac "line" power interruption.

Physical Description:

The physically separate Battery Unit (CAC P/N 730-0114) and Power Supply/Battery Charger Unit (CAC P/N 730-0116) permit flexible installations while providing the ability to add a Battery Unit when the powered device is operating.

Each CPE Battery Backup System includes:

- AC-to-DC Power Supply/Battery Charger unit with external "telco ground" stud
- -48 VDC Battery Unit
- AC power "line" cable (US grounded 3-prong 120Vac outlet only)
- -48 VDC power cable with "quick connect" for battery charging (2-conductor DC cable)
- -48 VDC power cable for CAC product power connection (3-conductor DC cable)



CPE Battery Backup System Features and Advantages

- System wall mounts or rack mounts using optional 19" heavy duty rack mounting brackets.
 - Permits up to two Battery Units in a dual rack unit space, or
 - Alternatively permits one Power Supply/Battery Charger and one Battery Unit in a dual rack unit space.
- Rechargeable, sealed lead-acid batteries require no in-service maintenance.
- Battery pack installation and replacement can be accomplished with no interruption to unit operation (if plugged into AC power).
- LED on Power Supply/Battery Charger unit indicates battery and AC "line" status.
- AC fail alarm output on Battery Charger indicates loss of AC "line" power.
- Battery Unit incorporates drain limit to prevent full depletion of the battery for increased operational life.
- Built-in circuit breaker prevents damage to the Battery Charger unit due to AC power surges.
- Limited 5-year warranty for the CPE Power Supply/Battery Charger and 90 days for the Battery Unit from date of shipment from CAC.

Technical Specifications:

Electrical: 120 Vac power input with continuous -48VDC power output

Maximum continuous power operation limitations during AC "line" power loss under normal (0.5 Erlangs) operating conditions:

Access Bank[®] I: 4-12 hours

Access Bank[®] II: 4-10 hours

Wide Bank[™] 28: 4-8 hours

Recharge time of fully discharged batteries is approximately 12 hours.

Environmental: Operational temperature range: 0° to 50° C (32° to 122° F)

Ideal operational temperature: 20° C (68° F)

Temperatures outside this range will significantly affect battery lifetime

Physical:

Power Supply/Battery Charger Unit: 3.25" x 4" x 5", 6 lbs

Battery Backup Unit: 3" x 17" x 6.25", 30 lbs

Compliance

UL 1950, NEC 1996, and CSA safety listed



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