

Dual.
Durable.
Dependable.



www.concealite.com

The Concealite CB Series central battery units are designed to back up low voltage Emergency Lighting Fixtures that require an emergency remote power source.

DC Emergency Lighting Battery Power Systems

CB Series 

Concealite's CB1, CB2 and CB3 Central Battery Systems are designed for remote lighting head applications. State-of-the-art design and rugged construction are built-in to assure many years of dependable service.

Features

- Completely self-contained
- Models operate for up to four hours
- Fully automatic solid-state charger
- Automatic battery protection (LVD)
- Models for loads up to 300 watts output
- Die-formed heavy 18 gauge steel cabinet
- Dual 120 or 277 VAC input, field selectable
- 1-1/2 hours of light to an end battery voltage of 87-1/2% of normal voltage
- Remote fixture capabilities
- Automatic brownout feature
- Solid-state charging circuit
- Long-life, lead calcium maintenance free battery
- Solid-state line-latched low voltage disconnect for 100% load disconnect protection to guard against battery deep discharge
- Momentary test switch
- AC ready light
- Listed to UL 924 Standards



DC Central Battery Unit

Installation

All models mount directly to the wall by means of an optional Wall Mount Shelf. Multiple knockouts are provided for 1/2" conduit. Fused connections are provided for remote fixture wiring.

Operation

Upon failure of normal utility power, a transfer switch automatically connects the battery to the DC lighting heads. Upon resumption of normal utility power, the DC lighting load is disconnected and the battery is recharged. The Central Battery System features a fully automatic, solid-state, temperature compensating, current limiting, two-rate battery charger, designed to recharge the battery within 24 hours. To prevent the battery from being severely damaged by a deep voltage discharge, a line-latched, solid-state low voltage disconnect is used. A voltage sensitive brownout circuit monitors the in/out voltage to this unit and automatically activates the emergency light when a pre-determined reduction of AC voltage occurs. This fluctuation of utility provided AC voltage would cause most fluorescent light fixtures to extinguish even though a power failure has not occurred.

Product Specifications

Emergency lighting shall be provided by a Concealite maintenance-free CB Series Central Battery Unit model _____. Operation shall be fully automatic and the emergency power unit shall be capable of providing _____ Watts of power for a minimum of 90 minutes. Cabinet construction shall be to NEMA 1 specifications. Batteries shall be maintenance free lead calcium. Features shall include a solid-state charger, automatic transfer circuit. A charge rate indicator and test switch shall be included. Optional Remote Test Switch (RT) is available.

Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

CB Series

DC Central Battery Units



CB 1

Depth 4.0" (10.16 cm) x
Width 13.5" (34.29 cm) x
Height 8.7" (22.10 cm)

CB2 & CB 3

Depth 6.75" (17.15 cm) x
Width 18" (45.72 cm) x
Height 8.7" (22.10 cm)

Total Remote Fixture Load (Watts)

Model #	Output Volts	Watts for 90 Min
CB1	12VDC	100
CB2	12VDC	200
CB3	12VDC	300



IR Infrared Remote Test System Option Available

Ordering Information

Example Spec: CB3-S6-IR-TDR120

Model	CB3	OPTIONS
CB 1		
CB 2		
CB 3		
Options		
WGI		Wire Guard
RT		Remote Test Switch
TDR120		120 VAC, 15 Min Time Delay Relay
TDR277		277 VAC, 15 Min Time Delay Relay
S3		Wall Mounting Shelf (Fits CB1)
S6		Wall Mounting Shelf (Fits CB2 and CB3)
IR		Infrared Remote Test System
XC		Control System for Concealite's Hydro-Lite HL Series Remotely Powered Fixtures (HL REM and HL C-Block)

The size of the conductors will depend on the distance between the power source and the total wattage of the remote fixture. Please refer to the Voltage Drop Tables to determine appropriate wiring size. Please refer to the remote wiring section in the optional technical data section of the catalog for the number of conductors needed to control remote fixtures.

Note: These specifications are subject to change



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