

**Powerful.
Premier.
Protection.**



www.concealite.com

The Concealite CPCF Series designed to back up fluorescent and incandescent fixtures up to 250 Watts. The CPCF unit provides AC power to the fixture, allowing it to be remote mounted up to 1,000 feet away. Unlike a ballast fluorescent emergency pack, the CPCF provides power to the input side of the fixture, (including the ballast) eliminating any chance of incompatibilities. The system will provide up to 250 Watts of emergency illumination for a minimum of 90 minutes.

AC Inverters – Emergency Lighting Power Systems

CPCF Series 

Architectural Features

- For powering incandescent and fluorescent fixtures.
- Unit capacity 250 Watts.
- Surface mounted model.
- Fused output load connections.
- Lumen output from fixture is 91% of nominal.
- Unique design eliminates compatibility issues with fluorescent ballasts.
- Compatible with dimming ballasts.
- Provisions for local switching capability. Always on during emergency conditions regardless of switch position.
- Emergency fixtures can be on, off or switched.
- Solid state, line latched low voltage disconnect provides protection against battery deep discharge.
- Long life maintenance free battery.
- Momentary test switch and AC ready indicator light.



CPCF-250 AC Inverter

- 250 Watt AC system for support of multiple
- remote loads.
- Universal 120 or 277 VAC input/output.
- Normally-on and/or normally off load output.
- Self-diagnostic monitoring available.
- DC overload and short circuit protection.
- Long life sealed lead calcium batteries standard.
- Unit will support fixtures up to 1000 feet away.
- Three (3) year warranty.
- UL 924 listed.



120/277 VAC Inverter

Installation

All models mount directly to the wall by means of two keyhole slots. Knockouts are provided for right-end entry of 1/2" conduit. Fused connections are provided for remote fixture wiring.

Operation

Upon failure of the normal utility power, the CPCF is instantly turned on by a solid state switching circuit – and provides a minimum of 90 minutes of emergency power to the connected load. Lumen output will be maintained to 91% of the lamp's rating throughout the entire duration. A solid state low voltage disconnect circuit is used to protect the battery from being severely damaged by a deep discharge. When normal utility power is restored, the fully automatic, temperature compensated, variable rate float charger begins to restore the battery; bringing it to full charge within 24 hours. A brownout sensing circuit ensures proper operation during "low line" conditions.

Product Specifications

Emergency lighting shall be provided by a Concealite maintenance-free CPCF Series AC Inverter 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.

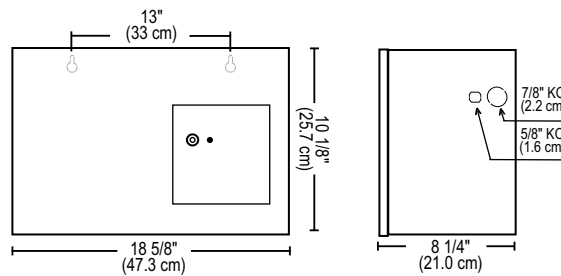
CPCF SERIES

AC Inverter Emergency Power Systems



120/277 VAC Inverter

Mini inverter system for powering up to 250 Watts of fluorescent or incandescent lighting loads.



Model #	Output Volts	Watts for 1 1/2 Hrs	Watts for 2 Hrs	Watts for 3 Hr	Watts for 4 Hrs	Mounting Type
CPCF-250	120/277	250	185	115	87	Surface

Ordering Information

Example Spec: CPCF-250-SD

Options

220	220 VAC, 50 Hz. Input
TD 120	15 Minute Time Delay Relay 120 VAC
TD 277	15 Minute Time Delay Relay 277 VAC
RT	Remote Test Switch
SD	Self-Diagnostic
IR	Infrared Remote Test System
XC	Control System for Concealite's Hydro-Lite HL Series Remotely Powered Fixtures (HL REM and HL C-Block)



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Dual.
Durable.
Dependable.



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The Concealite CBU 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



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	160
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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