

# Con-CEPS

## Emergency Power Systems From Concealite



**Twenty-First Century  
Solutions for your  
AC Emergency Power  
Requirements**

# Concealite Con-CEPS Systems

Concealite Life Safety Products is pleased to announce the introduction of our new line of emergency lighting inverter systems. As with all Concealite products, Con-CEPS (Concealite Emergency Power Systems) are state-of-the-art with a host of available options to customize the product to fit the customer's application.

CON-CEPS will provide emergency AC power allowing the engineer to utilize any fixture regardless of lamp type, as a emergency lighting fixture. CON-CEPS provides power to fire alarm equipment, PA systems, computers, etc. The CON-CEPS product line is divided into two system types.



## Features and Benefits

### CEPS I

- 1500 to 3500 KW output
- Sealed lead calcium batteries
- Microprocessor controlled PWM static inverter
- Wide selection of input voltage
- Self-diagnostic monitoring system
- Inherent surge and spike protection
- Low voltage disconnect
- Hot swap battery modules
- Brownout circuit protection
- UL 924
- Modular system construction



### CEPS II

- 4000 to 18000 KW output
- Sealed lead calcium batteries
- Microprocessor controlled PWM static inverter
- Wide selection of input voltage
- Self-diagnostic monitoring system
- Inherent surge and spike protection
- Low voltage disconnect
- Hot swap battery modules
- Brownout circuit protection
- UL 924

# Con-CEPS Specifications

- A. Emergency power shall be provided by a DC/AC system capable of powering a connected \_\_\_\_\_ load for a period of 90-minutes. The input supply shall be \_\_\_\_\_, and the output VA shall be \_\_\_\_\_.
- B. The system shall be comprised of an electronic and a battery cabinet(s) in a NEMA I Enclosure.
1. Cabinets shall be located in a side-by-side configuration.
  2. Cabinets shall be constructed of 16-gauge welded steel finished in an acid resistant paint.
  3. Locks shall be provided on all battery cabinets and shall be keyed alike.
  4. The electronics cabinet shall be keyed separately to comply with UL requirements.
  5. Provide all components required for interconnecting and grounding the enclosures for a complete system.
- C. The system shall consist of a highly filtered current and voltage limited precision battery charger, microprocessor controlled PWM static inverter, battery bank sized appropriately for the load, and a diagnostic electronic system status display.
- D. The charger shall be an automatic, three rate charger capable of bringing the battery pack to full charge within twenty-four hours after a 90-minute discharge. The charger shall be controlled to 1% and be highly filtered, current limited and voltage regulated.
- E. The inverter shall deliver single phase, sinusoidal emergency power, free from high voltage surges and frequency drift.
- F. The system shall provide immunity to all line disturbances and power interruptions with no break in AC output power.
- G. Emergency power is provided by sealed lead-calcium recombinant batteries with a ten-year expected design life. These batteries shall have a 10-year prorated warranty.
- H. The system shall continually monitor utility power and will only switch to battery power, if waveform exceeds the programmed parameters.
- I. A self-diagnostic monitoring alarm system will advise of system status with an LED display:
1. Monitors status of the Line Power, Battery Charging, Reserve Battery Power remaining, and Conditioned Power.
  2. Alarm sounds and LED indicates when system is: On Battery, Low Battery, Charger Failure, High Temperature, or system By-pass. An Alarm Silence button is located in close proximity to the LED indicator.
- J. System shall have AC and DC circuit breakers for overload protection.
- K. System shall have low voltage disconnect and brownout circuits.
- L. System shall be Concealite Con-CEPS series, or approved equal.

## Con-CEPS Panel Display Features

LED indicators for the following systems status parameters:

- Line Power On (Green)
- Battery Charging (Green)
- Reserve Battery Power – 10 segments LED Bar Graph (Red)
- Conditioning Power (Green)

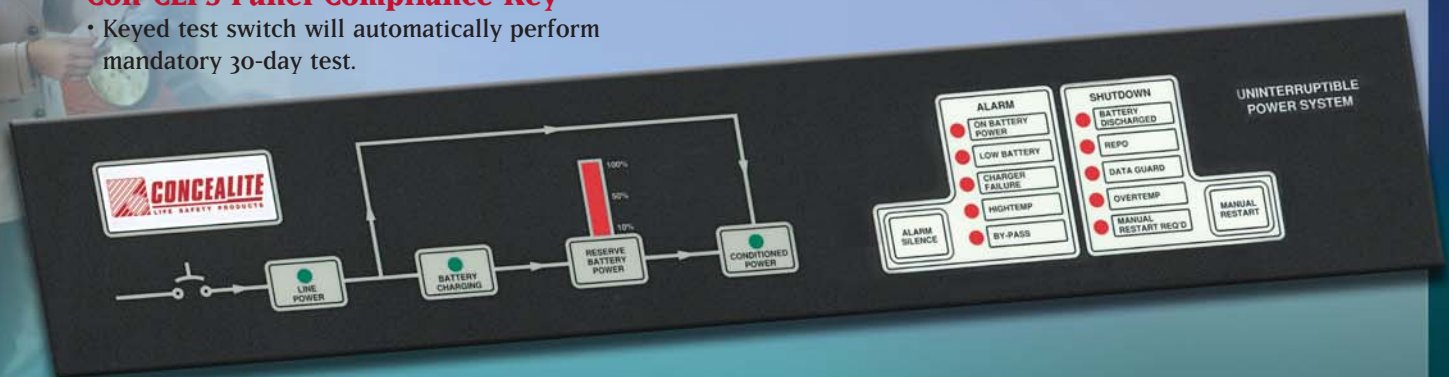
## Con-CEPS Panel Compliance Key

- Keyed test switch will automatically perform mandatory 30-day test.

## Con-CEPS Panel Alarms

Alarms shall be provided for the following faults;

- On Battery Power Failure
- Low Battery
- Charger Failure
- High Temperature
- In Bypass
- Alarm Silence button



# The Con-CEPS: Emergency Power Systems

## Ordering Information

MODEL #	INPUT VOLTAGE	KW	KVA	OUTPUT VOLTAGE	INVERTER WEIGHT (lb)	BATTERY MODEL #	BATTERY WEIGHT (lb)	SYSTEM WT TOTAL	INVERTER W/D/H (in)	BATTERY W/D/H (in)
CEPS1-1115	120	1.5	2.1	120	99	CE 1500	553	652	17/21/14	25/33/44
CEPS1-1120	120	2.0	2.9	120	99	CE 2000	707	806	17/21/14	25/33/44
CEPS1-5225	120/208-240	2.5	3.5	120/208-240	67	CE 2500	806	873	17/21/14	25/33/44
CEPS1-5230	120/208-240	3.0	4.3	120/208-240	67	CE 3000	920	987	17/21/14	25/33/44
CEPS1-5235	120/208-240	3.5	5.0	120/208-240	67	CE 3500	920	987	17/21/14	25/33/44
CEPS2M4K	120/208-240	4.0	5.0	120/208-240	375	CE 4000	1,042	1,417	15/28/30	22/33/44
CEPS2M5K	120/208-240	5.0	6.0	120/208-240	564	CE 5000	1,222	1,786	22/32/44	22/33/44
CEPS2M5.4K	120/208-240	5.4	7.0	120/208-240	564	CE 5400	1,222	1,786	22/32/44	22/33/44
CEPS2M6K	120/208-240	6.0	8.0	120/208-240	674	CE 6000	1,815	2,489	22/32/44	33/40/52
CEPS2M7K	120/208-240	7.0	9.0	120/208-240	674	CE 7000	1,815	2,489	22/32/44	33/40/52
CEPS2M8K	120/208-240	8.0	10.0	120/208-240	674	CE 8000	1,815	2,489	22/32/44	33/40/52
CEPS2M10K	120/208-240	10.0	13.0	120/208-240	995	CE 10000	2,510	3,505	33/36/52	33/40/52
CEPS2M12K	120/208-240	12.0	15.0	120/208-240	995	CE 12000	2,785	3,780	33/36/52	33/40/52
CEPS2M15K	120/208-240	15.0	18.0	120/208-240	1,115	CE 15000	3,390	4,505	33/36/52	33/40/52
CEPS2M16K	120/208-240	16.0	19.0	120/208-240	1,115	CE 16000	4,195	5,310	33/36/52	2 EA-33/40/52
CEPS2M18K	120/208-240	18.0	20.0	120/208-240	1,115	CE 18000	4,195	5,310	33/36/52	2 EA-33/40/52
CEPS1-1115	277	1.5	2.1	277	177	CE 1500	553	730	17/21/14	25/33/44
CEPS1-1120	277	2.0	2.9	277	177	CE 2000	707	983	17/21/14	25/33/44
CEPS1-5225	277	2.5	3.5	277	287	CE 2500	806	1,093	17/21/21	25/33/44
CEPS1-5230	277	3.0	4.3	277	287	CE 3000	920	1,207	17/21/21	25/33/44
CEPS1-5235	277	3.5	5.0	277	287	CE 3500	920	1,207	17/21/21	25/33/44
CEPS2J4K	277	4.0	5.0	277	455	CE 4000	1,042	1,497	15/28/30	22/33/44
CEPS2J5K	277	5.0	6.0	277	674	CE 5000	1,222	1,896	22/32/44	22/33/44
CEPS2J5.4K	277	5.4	7.0	277	674	CE 5400	1,222	1,896	22/32/44	22/33/44
CEPS2J6K	277	6.0	8.0	277	784	CE 6000	1,815	2,599	22/32/44	33/40/52
CEPS2J7K	277	7.0	9.0	277	784	CE 7000	1,815	2,599	22/32/44	33/40/52
CEPS2J8K	277	8.0	10.0	277	784	CE 8000	1,815	2,599	22/32/44	33/40/52
CEPS2J10K	277	10.0	13.0	277	1,115	CE 10000	2,510	3,625	33/36/52	33/40/52
CEPS2J12K	277	12.0	15.0	277	1,115	CE 12000	2,785	3,900	33/36/52	33/40/52
CEPS2J15K	277	15.0	18.0	277	1,245	CE 15000	3,390	4,635	33/36/52	33/40/52
CEPS2J16K	277	16.0	19.0	277	1,245	CE 16000	4,195	5,440	33/36/52	2EA-33/40/52
CEPS2J18K	277	18.0	20.0	277	1,245	CE 18000	4,195	5,440	33/36/52	2EA-33/40/52



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### Optional Distribution Panels

kW	MAXIMUM
1.5 - 4	up to 5, 1-pole breaker*
5 - 8	up to 7 panels
10 - 18	up to 14 panels

\*1.5 - 3.5kW requires optional distribution module.

