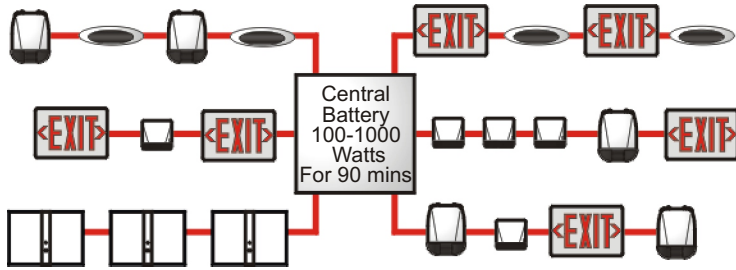


# Universal Central Battery System For all Sigtex Emergency Lighting Products

Series CBS

CBS.02.13.18



## GENERAL DESCRIPTION

The Central Battery System (CBS) finally offers a practical way to comply with the Life Safety Code and solve emergency battery maintenance problems forever. The perfect solution for any size application. Provides from 100 to 1000 watts of emergency power to any combination of Sigtex products for a minimum of 90 minutes. An optional night/ security power supply will run all fixtures required for night lighting at less than 6 watts.

## CONSTRUCTION & OPERATION

- Uninterruptible Power Supply per NEC 700.12 (c), with storage batteries, charging system, automatic transfer switch and self-test switch with LED indicator.
- NEMA Type 1, UL 50 steel cabinet, for surface or optional recessed mount
- Test switch and diagnostic status indicator allow immediate update on battery condition and charger performance.
- Maintenance on battery or other electronics for all emergency lighting equipment on one building floor can be performed in a short time. No access to the fixtures is required.
- Up to eight low voltage circuits operate emergency lighting as well as night/ security lighting, and exit signs. Fixtures may be connected together in parallel in a "daisy-chain".

## ELECTRONICS

- All charger functions are monitored by an advanced microprocessor which also automatically performs all self-test diagnostics as required by NFPA 101 and UL 924, every 30 days and every 12 months following installation.
- Regulated charger output for fast charge with maximum battery life.
- The Security Lighting option can be controlled by an internal time clock, photocell, or from a building management system.
- Output terminal blocks provided, accepting wire gauges from 12 AWG to 8AWG.

## BUILDING MANAGEMENT INTERFACE

- An optional BMI module allows two-way communication of diagnostic data between a CBS panel and a Building Management System via BACnet protocol, or equivalent code. Written test reports can be produced in full compliance with the NFPA Life Safety Code 101, Section 7.9.3.1.3 (5).

## CODES

- Meets applicable requirements of UL Standard 924, NFPA 101, and NEC 700.12 (c).

## WARRANTY

- 3 year total customer satisfaction warranty. For details see product catalog technical data section.



## FIXTURE SCHEDULE

MODEL	CATALOG NO
APPROVAL	JOB INFORMATION



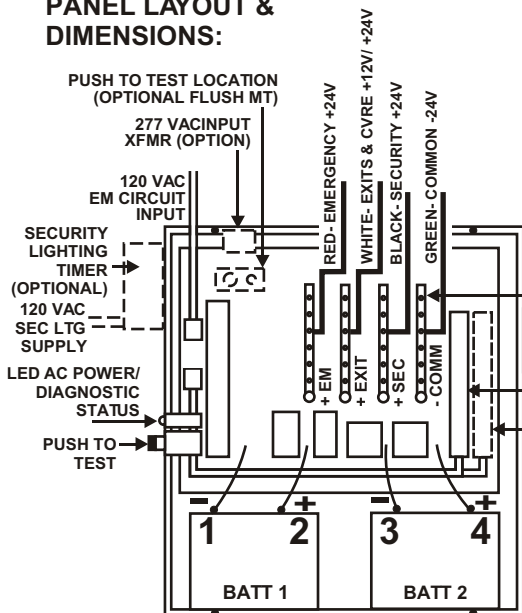
# Universal Central Battery System For all Sigtex Emergency Lighting Products

## Series CBS

### SUGGESTED SPECIFICATIONS:

Power for emergency lighting shall be provided by Sigtex Inc Central Battery System Series CBS, including optional security or night lighting, with input of 120 VAC and uninterrupted output of 24 VDC for loads as specified for at least 90 minutes in emergency operation. The system shall be capable of supplying power to all Sigtex emergency lighting remote fixtures, including COVERLITE and MOONLITE™ models, and all LED exit signs. Panel construction shall be from sheet steel, UL listed, and meet NEMA I requirements. Battery diagnostics will perform automatic testing as required to meet national and local codes, and status will be displayed with a multicolor LED on the panel, and manual push-to-test switch. An optional Building Management Interface (BMI) shall be capable of communicating diagnostic self-test data to Building Management System.

### PANEL LAYOUT & DIMENSIONS:



### DC OUTPUTS:

RED- EMERGENCY +24V

WHITE- EXITS & CVRE +12V or +24V  
12V: Continuous power in normal mode  
24V: Emergency power

BLACK- SECURITY/ NIGHT LTG +24V

GREEN- COMMON -24V

DC OUTPUT TERMINAL STRIPS UP TO 8 CIRCUITS AVAILABLE

SECURITY/ NIGHT LTG POWER SUPPLY (OPTIONAL)  
EXIT & CVRE POWER SUPPLY (CBS1000 ONLY OR 'EX' OPTION FOR OTHERS)

### FIXTURE WIRING CONNECTIONS

EXIT SIGNS: GREEN & WHITE

EMERGENCY FIXTURES: RED, GREEN, & BLACK (IF SEC)

CVRE: GREEN, WHITE & RED

### SELF-TEST DIAGNOSTIC FUNCTIONS

STATUS	LED DISPLAY
NORMAL FULL CHARGE	GREEN ON
NORMAL FAST CHARGE	ORANGE ON
FAILED BATTERY	RED FLASH FAST
FAILED TRANSFER	ORANGE FLASH
FAILED CHARGER	RED FLASH SLOW

EXITS ONLY: 2 WIRE SYSTEM  
EXITS & EM LIGHTING: 3 WIRE SYSTEM  
EXITS & EM WITH NIGHT/ SECURITY LIGHTING: 4 WIRE SYSTEM

### CIRCUIT LOAD CALCULATIONS

- Up to eight circuits are available from each central battery system panel.
- Any Sigtex REMOTE model may be connected to the system, within the power limits of the central battery when fixture is operated at EPR (Emergency Power Rating). See load table at right..
- For each circuit, multiply fixture quantity by the corresponding EPR watts to calculate total load.
- Add all circuit loads together to ensure the gross load is no higher than the power limit of each central panel.
- Select the circuit with the highest load and measure its length.
- To calculate loads with multiple circuits, refer to [www.sigtexinc.com/CBS/Design Guide](http://www.sigtexinc.com/CBS/Design Guide).
- Using the Circuit Length/Load table supplied in instructions on our web site, determine the wire size required for this installation.
- To minimize voltage drop in each of the six branch circuits, fixtures should be wired in continuous "daisy chain" configuration. Sub-branch circuits should be kept to a minimum length and load.
- For most installations wire size of #10AWG allows circuit length of 250 ft or more for MOONLITE LED and EXIT LED fixtures. For CVRE fixtures, larger wire size may be required. Check voltage drop calculation tables provided in [www.sigtexinc.com/CBS/Design Guide](http://www.sigtexinc.com/CBS/Design Guide).

### OPTIONS

CBS.02.13.18

- S** Security Lighting Power Supply
- EX** Additional Exit Lighting Power Supply
- LCM** Local Circuit Monitor Control
- HPS** High Power Security Lighting
- T** Time Clock for Security Lighting Operation
- BMI** Building Management Interface
- CVR** Output Power Relay for CVRE Operation
- 277<sup>1</sup>** 277 VAC Input for Charger System
- 277S<sup>1</sup>** 277 VAC Input for Charger & Security Lighting
- REC<sup>2</sup>** Recess Mount
- LOK** Key Lock
- NEM4** Weatherproof

<sup>1</sup>Panel size may vary from table below. Contact factory for dimensions.  
<sup>2</sup>Limited sizes available. Contact factory for information.

### EXIT LIGHTING

**CBS100 & CBS250**

STANDARD: MAX. 15 EXIT SIGNS PER CBS  
"EX" OPTION: MAX. 40 EXIT SIGNS PER CBS

**CBS500 & CBS1000**

STANDARD: MAX. 40 EXIT SIGNS PER CBS

EPR WATTS	SEC WATTS	PANEL SIZE H" x W" x D"	WEIGHT WITH BATTS
			Lbs.
100	60	16 x 16 x 6	40
250	150	18 x 18 x 8	60
500	320	18 x 18 x 8	100
1000	600	24 x 30 x 8	180

ENCLOSURE SIZES SHOWN FOR 120 VAC INPUT. CONTACT FACTORY FOR 277 VAC OPTIONS.

EPR= POWER TO DRIVE EMERGENCY LIGHTING FOR 90 MINUTES

SEC= POWER AVAILABLE FOR CONTINUOUS SECURITY OR NIGHT LIGHTING

### EMERGENCY POWER RATING

FIXTURE	EMERGENCY POWER (EPR Watts)
MOONLITE LED: ALL 10L2 MODELS	10
MOONLITE LED: ALL 15L3 MODELS	15
SINGLE FACE EXIT	2
DOUBLE FACE EXIT	4
COVERLITE REMOTE CVRE20	48
COVERLITE REMOTE CVRE35	85
COVERLITE REMOTE CVRE50	120
COVERLITE REMOTE CVRE75	180

### ORDERING INFORMATION

EXAMPLE: CBS250T277S

CBS	250	S
MODEL	90 MINUTE OUTPUT WATTS	OPTIONS
CBS	100 250 500 1000	SEE ABOVE

See Series CES data sheet for information on Emergency and Standby system for use with generator.

DISTRIBUTOR:



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LIGHTING

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