

Alpha[®] —Lighting

Your way of savings in the future



ALPHA EMERGENCY EMERGENCY LED LIGHTING





ALPHALIGHTING CZ Ltd. provides complex design and implementation of emergency lighting for industrial and commercial premises to the full extent at the highest technical and professional level.

Our Emergency Lighting Systems have worked flawlessly on many major domestic and foreign projects: Fatra Inc. - Czech Republic, TOS Hulín Inc. - Czech Republic, DS Logistik Ltd. - Dunajská Streda SK, Faurecia DC6a - Lozorno, BMW Prologis DC9 - SK, etc.

Apart from other products, the high-performance **combined LED luminaires** for the emergency lighting system of the main lighting system are the result of our excellent light engineering and company development.

The excellent technical parameters of these luminaires are a guarantee of **significant investment savings** associated with emergency lighting implementation.

The main products of the emergency lighting system

ALPHA EMERGENCY EMERGENCY LED LIGHTING

CBS (central battery systems)

- combined LED luminaires
- emergency LED luminaires

Autonomous emergency LED lighting

- combined LED luminaires
- emergency LED luminaires

ALPHA EMERGENCY CBS

CENTRAL BATTERY SYSTEM

The Central Battery System (CBS) is designed for lighting power supply in the event of a power failure in electrical power network.

- For the supply voltage 230 V AC/400 V AC.
- The output voltage is obtained directly from the 230 V AC electrical network when in operation or from the 216 V DC battery when the power supply fails.



BASIC TECHNICAL PARAMETERS:

Power supply	230 V AC/400 V AC
Capacity	1 kW – 27 kW
Output voltage	216 V DC or 230 V AC
The number of substations	max. 32
The number of circuits on the station	max. 64
The input power of the individual circuits	max. 1 kW
The voltage of batteries	216 VDC
The number of batteries	18 pcs each 12 V
Battery operating time	1 – 3 h
Allowed ambient temperature under load	0 °C – 30 °C



Central battery system (CBS)
 1 kW – 27 kW
 during the emergency mode 1–3 h



Substation CBS

ALPHA EMERGENCY CBS CENTRAL BATTERY SYSTEM

CCBS is designed to power circuits in an IT network in a battery-switched operation mode. It has been designed in accordance with the norms EN 1838, EN 50171, EN 50172, EN 50272 and manufactured in the insulation class I according to EN 60950. This means that metal encapsulation with protective conductor has been used to protect against electric shock.

The Emergency Lighting Power Supply System is designed to power supply devices with AC voltage 220/230 V AC or DC 216 V DC.



This CBS central battery system can consist of one **separate central station** or central station together **with other substations**. Central stations and substations communicate with each other via RS485.

Testing and controlling of emergency luminaires or combined luminaires takes place either by measuring the current loss in individual branches (circuits) or by individually checking each luminaire with addressing (luminaires with the address module).

The control unit with permanent program memory and colorful graphic display monitors and controls the entire central battery system. It automatically tests all device and emergency luminaire functions that are connected to it, and reports potential any errors that occur.

All runs, tests, and error messages are recorded in an internal **SD card** that is part of the control unit. The data can be downloaded to a **USB drive**.



ALPHA EMERGENCY CBS CENTRAL BATTERY SYSTEM

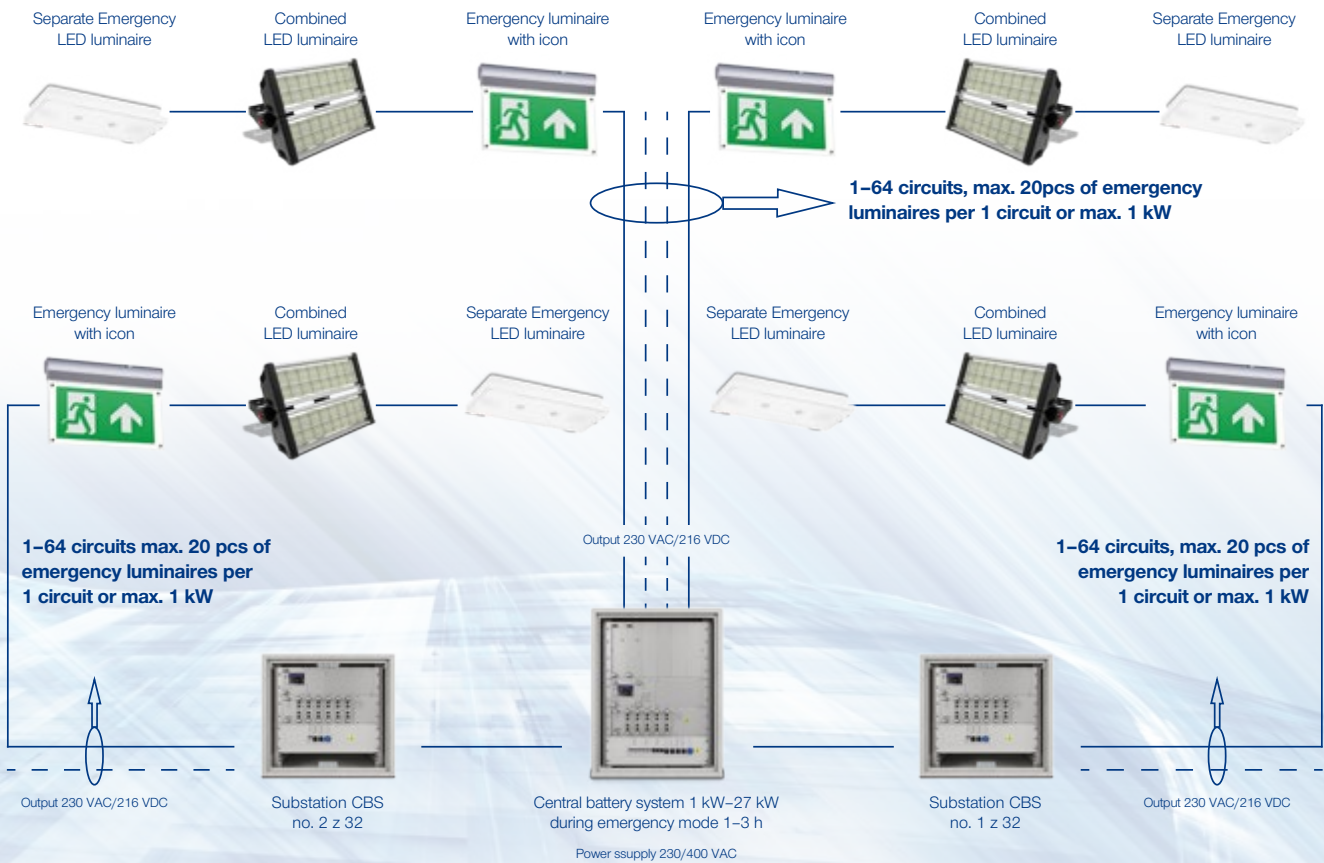
The central battery system (CBS) can be powered from **single-phase or three-phase** electrical network. It is equipped with maintenance-free, all-lead accumulators with a construction lifetime of **10 years**.

The batteries can be placed in one common box together with CBS control modules or in a separate box only for batteries. Depending on the required battery capacity and their dimensions.

Total capacity of the central battery system of one single station is **from 1 kW to 27 kW**, depending on the battery capacity.

One station can control **max. 64 circuits** with a number of 20 luminaires per circuit not exceeding input power 700 W-1 kW and with the total installed input power of all luminaires not exceeding the total battery capacity.

CBS SCHEME:





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