

Central Battery System ZB 96



SKU CG 1x6 - 1/3

Circuit Overload

Non-maintained light

Maintained light
switched via

BL	DL	T1	T2	DLS	DLS	TLS
1						

Lighting Systems with Individual Monitoring:

ZB 96



Already the conception of the new ZB 96 emergency lighting supply system allows for all requirements placed on a reliable, economical and environmentally friendly emergency lighting. Equipped with system modules of future-oriented technology, it is focussed on a decentralized layout of emergency lighting systems. To the user that means compact safety. The decentralized layout of substations prevents the so-called "Goliath effect" so that failures in the emergency lighting supply system can no more lead to total failures. An essential part of the required information is processed by the substations which include power electronics for the reliable supply of the luminaires and thus relieve the central cover. More flexibility in the choice of the locations also means more safety due to short luminaire connecting leads and protected locations.

- **Compact design of covers and substations**
- **Individual circuit change-over module**
- **Freely programmable switching modes of the circuits**
- **High safety due to decentralized system setup**
- **Installation per segregated storeys or fire zones**

Central Battery System ZB 96



Ordering information

Type	Scope of supply	Order No.
Central battery system ZB96/200S	Central battery system incl. ST20, LT.1 and DC/DC.2 26 free module slots	4 0071 343 909
Central battery system ZB96/200	Central battery system incl. ST20, LT.1 and DC/DC.2 18 free module slots	4 0071 343 900
Central battery system ZB96/200C	Central battery system incl. ST20, LT.1 and DC/DC.2 10 free module slots	4 0071 343 901
Central battery system ZB96/204C	Central battery system incl. ST20, LT.1 and DC/DC.2 14 free module slots	4 0071 346 851
Central battery system ZB96/260C	Central battery system incl. ST20, LT.1 and DC/DC.2 10 free module slots	4 0071 346 590
Central battery system ZB96/264C	Central battery system incl. ST20, LT.1 and DC/DC.2 14 free module slots	4 0071 346 852
Central battery system ZB96/180C	Central battery system incl. ST20, LT.1 and DC/DC.2 10 free module slots	4 0071 343 908
Central battery system ZB96/188C	Central battery system incl. ST20, LT.1 and DC/DC.2 18 free module slots	4 0071 346 850
Central battery system ZB96/LAD	Central battery system incl. ST20, LT.1 and DC/DC.2 (2 free module slots possible)	4 0071 347 400
Substation US96/200	Substation incl. ST20 and DC/DC.2 36 free module slots	4 0071 343 902
Substation US96/120	Substation incl. ST20 and DC/DC.2 21 free module slots	4 0071 346 285
Substation US96/80	Substation incl. ST20 and DC/DC.2 13 free module slots	4 0071 343 903
Substation US96/60	Substation incl. ST20 and DC/DC.2 5 free module slots	4 0071 343 906
Substation US96/38	Substation incl. ST8 and DC/DC.2 3 free module slots	4 0071 343 905
Substation ESF-E30/17	Substation incl. ST20 and DC/DC.2 17 free module slots	4 0071 347 805
Substation ESF-E30/28	Substation incl. ST20 and DC/DC.2 4 free module slots	4 0071 347 807

Ordering information for accessories

Type	Order No.
4 off DIN mounting rail incl. fixing accessories	4 0071 347 125
3 off C-section rail incl. fixing accessories	4 0071 347 126
200 mm plinth, depth 400 mm	4 0071 347 121
100 mm plinth, depth 400 mm	4 0071 347 120
200 mm plinth, depth 300 mm	4 0071 347 122
3-piece baseplate, depth 400 mm, mouse-proof	4 0071 347 124
Cable support rail	4 0071 347 123
Metal flange plate for battery cabinet, undrilled	4 0071 346 225
Flange plate with foam rubber for battery cabinet	4 0036 070 164
Fireproof dowel M10 for E30 sub-distribution board, pack of 12, for installation in concrete walls	4 0036 070 298
Wall mounting plate for ESF-E30/17	4 0071 347 726

Table of Covers Technical Data ZB96

Type	ZB96/200S	ZB96/200	ZB96/LAD	ZB96/200C	ZB96/204C	ZB96/260C
Rated voltage 400/230 V 50 Hz	400/230 V 50/60 Hz	400/230 V 50/60 Hz	400/230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz
Modules:						
Control module ST-20	1	1	1	1	1	1
DC/DC.2 converter	1	1	1	1	1	1
Charging module 2.5 A	1	1	1	1	1	1
Circuit module SKU CG	0-26	0-18	0-2 ²	0-10	0-14	0-10
Charging booster 2.5 A	0-6 ¹	0-6 ¹	0-10	0-1 ³	0-1 ³	0-2 ⁴
Cabinet construction:						
Conductor size for mains and battery supply	50 mm ²	50 mm ²	50 mm ²	16 mm ²	16 mm ²	16 mm ²
Three-phase distribution	no	no	no	no	no	no
Conductor size Outgoing circuits	max. 6 feeders ⁸ 16 mm ²	max. 6 feeders ⁸ 16 mm ²	15 feeders ⁸ 16 mm ²	2 feeders 35 mm ²	–	2 feeders 35 mm ²
Max. conductor size Final circuits	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Cable entry from top	yes	yes	yes ⁹	yes	yes	yes
Cable entry from bottom	yes	yes	yes ⁹	no	no	no
Type of protection	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21
Dimensions H x W x D (mm)	2050 x 800 x 400	2050 x 800 x 400	2050 x 800 x 400	2050 x 800 x 400	2050 x 800 x 400	2050 x 800 x 600
Plinth (optional in mm)	100/200	100/200	100/200	200	200	–
Lock	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way
Battery capacity, installed in:						
Compact cabinet	–	–	–	5.5-53 Ah	5.5-53 Ah	5.5-90 Ah
Battery cabinet	22-249 Ah ⁶	22-249 Ah ⁶	22-249 Ah ⁶	–	–	–
Battery rack	22-249 Ah ⁶	22-249 Ah ⁶	22-249 Ah ⁶	–	–	–

Other battery sizes on application

¹ When 6 boosters are fitted, a double bus carrier is necessary.

² Up to 8 boost chargers are possible when 2 SKU are fitted.

³ When 1 booster is fitted a single booster adapter is necessary.

⁴ When 2 boosters are fitted a double booster adapter is necessary.

⁵ The DC/DC.2 converter can supply up to 26 SKU modules. For 27 SKU and more a second DC/DC.2 converter is necessary.

Table of Covers Technical Data ZB96

ZB96/264C	ZB96/180C	ZB96/188C	US96/200	US96/120	US96/80	US96/60	US96/38	ESF-E30/17 ¹⁰	ESF-E30/28 ¹⁰
230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz
1	1	1	1	1	1	1	1 ⁷	1	1
1	1	1	1-2	1	1	1	–	1	1
1	1	1	–	–	–	–	–	–	–
0-14	0-10	0-18	0-36 ⁵	0-21	0-13	0-5	0-3	0-17	0-26
0-2 ⁴	–	–	–	–	–	–	–	–	–
16 mm ²	16 mm ²	16 mm ²	35 mm ²	35 mm ²	35 mm ²	16 mm ²	16 mm ²	16 mm ²	16 mm ²
no	no	no	no	no	no	no	no	no	no
–	1 feeder 16 mm ²	1 feeder 16 mm ²	–	–	–	–	–	–	–
2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	4 mm ²	4 mm ²
yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
no	no	no	yes	no	no	no	no	no	no
IP 21	IP 21	IP 21	IP 21	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
2050 x 800 x 600	1800 x 600 x 350	1800 x 600 x 350	2050 x 800 x 400	1200 x 600 x 300	800 x 600 x 250	600 x 400 x 250	380 x 380 x 210	1150 x 885 x 405	2190 x 885 x 405
–	200	200	100/200	300	–	–	–	–	–
3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3 mm two-way	3mm two-way
5.5-90 Ah	5.5-22 Ah	5.5-22 Ah	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–

⁶ Higher battery capacities B 130 Ah are achieved by connecting several battery sets in parallel. (>240 Ah Special type)

⁷ Only control module ST8 possible

⁸ Provided a three-phase mains supply the connected substations and boosters could operate three-phase.

⁹ Please declare the cable entry as a project requirement.

¹⁰ With admittance no. Z-86.2-1. The supply cabinets ESF-E30 must be fixed to solid walls with a circuit integrity of at least 30 minutes.