

## CBS 230 AC/DC

## Control panel



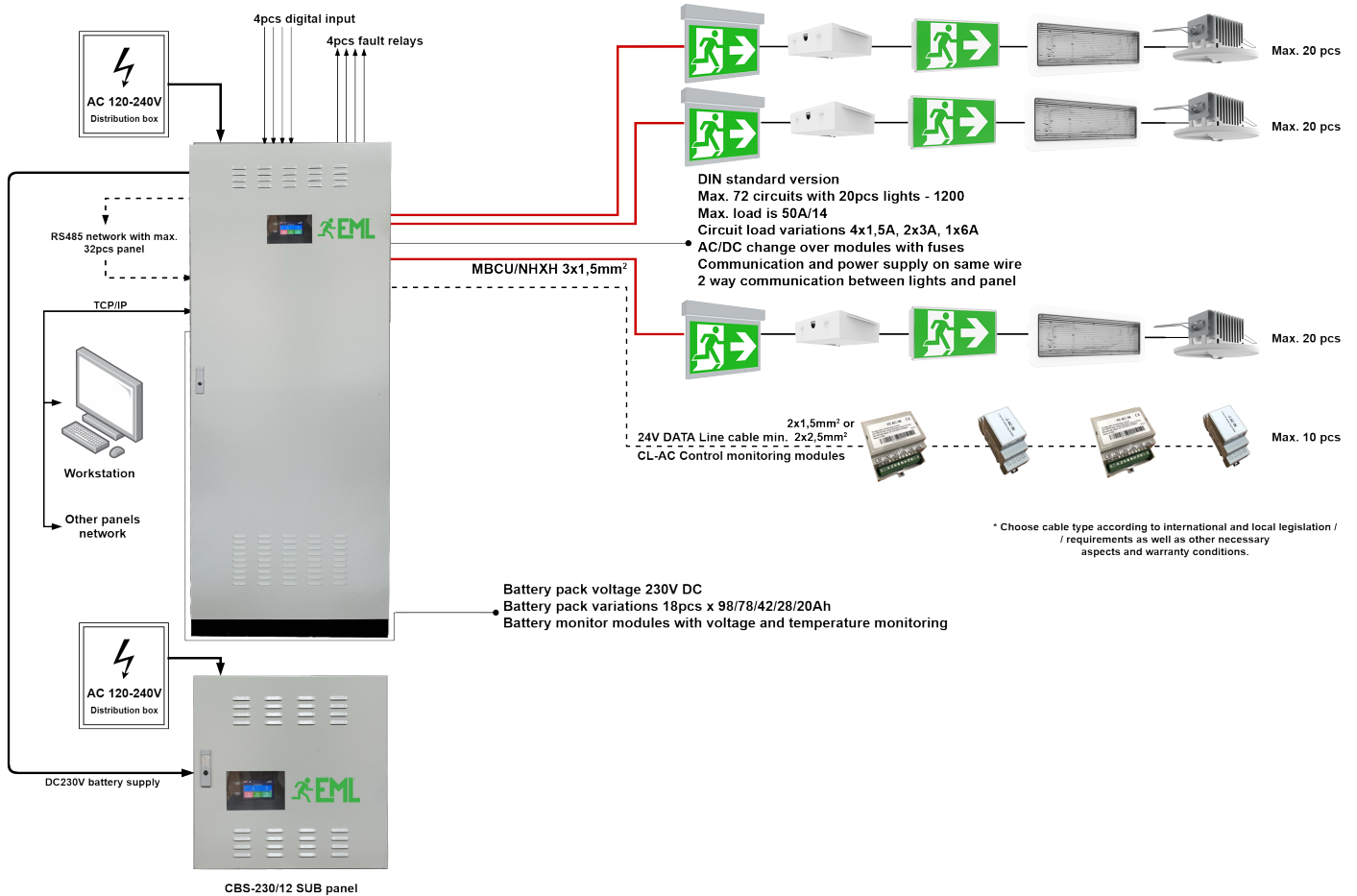
## Details



Type	Addressable 230V AC/DC control panel, optional sub-panel
Battery pack variations	18pcs 98Ah, 78Ah, 42Ah, 28Ah, 20Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	50A @ 1hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max 1200/controlpanel
Controller module slot number: max. 20pcs, change-over module types	EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A max. 2 pcs
Cable inlets	7 x M20, 30 x M25, 4 x M30
Cable connection for circuits	Max. 2.5mm <sup>2</sup> cross-section solid or sleeved twisted wire
Light addressing	Automatic, based on factory unique identification number
Mounting:	Standing on floor, must be attached the main cabinet with 4 screws to wall, battery cabinets with 4 screws to wall and 4 screws to floor. Main cabinet and battery cabinet must be attached to each other too.
TCP / IP network communication	between 254 pcs panels, RS485 ring network communication between 32 pcs panel
	10 pcs phase monitor modules for monitoring lighting distributors (EML-3AC IN, EML-10AC IN, EML-10POT IN) with 24V DATA line communication (max load 500mA, max length 300m)
	4 pcs configurable fault relays, 4 pcs configurable potential free input on master panel board
Housing color and material	Grey metal
Constant nominal ambient temperature range	0°C<T <sub>a</sub> <25°C
Warranty	5-years repair warranty

The CBS 230 AC/DC control panel is a high-capacity, addressable emergency lighting system, operating at 230VAC (normal mode) and DC (emergency mode), supported by durable sealed lead-acid battery packs (up to 98Ah). It provides a maximum 50A output for up to 1 hour, handling 72 output lines with 20 addressable devices per line, totaling up to 1200 lights.

Equipped with up to 20 controller modules, TCP/IP and RS485 communication, and a 5" touchscreen displaying recent events, the CBS 230 ensures reliable, scalable control. Housed in robust grey metal, it supports secure floor mounting, and includes a 5-year repair warranty for dependable emergency lighting management.



PANEL TYPE	CBS-230-72			CBS-230-44			CBS-230-24			CBS-230-12	CBS-230-12/SUB
INPUT VOLTAGE	230V										
OUTPUT VOLTAGE	1230V AC standby mode, 216 DC emergency mode										
MAX INPUT CURRENT	50A			50A			50A			15A	15A
NUMBER OF BATTERIES	18pcs										-
BATTERIES CAPACITY	*98Ah	78Ah	42Ah	*98Ah	28Ah	*98Ah	78Ah	28Ah	20Ah	-	
MAX LOAD 1 HOUR	50A	40A	20A	52A	15A	50A	40A	15A	11A	-	
MAX LOAD 3 HOUR	25A	20A	9A	25A	7A	25A	20A	7A	5A	-	
NUMBER OF LIGHTS	1200			880			480			240	320
MAX MODULE SLOT	20			12			8			4	4
NUMBER OF CIRCUITS	72			44			24			12	16
CHANGE-OVER MODULES	4x1,5A, 2x3A, 1x6A										
BATTERY CHARGERS (4A) MAX. QUANTITY	2	2	1	1	1	2	2	1	1	-	
MONITOR MODULES	3 phase, 10 phase and 10 potential free in modules, max. 10pcs on 24V DATA line communication cable.										
DISPLAY	5" LCD										
SOFTWARE	EML-UNI Commissioning/End-user/Graphics softwares										
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel										
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output										
PROTECTION	IP20/54 option										
DIMENSIONS	2100x800x430			2100x800x430			2100x800x430			1200x600x330	600x600x330
TOTAL WEIGHT	704kg	562kg	295kg	340kg	250kg	694kg	552kg	404kg	142kg	25kg	

\* CBS-230-72, CBS-230-44 and CBS-230-24 systems are available with battery options ranging from 28 Ah to 98 Ah.

**CBS-230V-12 AC/DC 1h**

Type	Addressable 230V AC/DC control panel, optional sub-panel
Battery pack variations	18pcs 20Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 15A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 20Ah batteries: 11A@1hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max 240 pcs/control panel
Controller module slot number: max. 20pcs, change-over module types	max. 4pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Dimensions	1200mm x 600m x 330mm

**CBS-230V-12 AC/DC 3h**

Type	Addressable 230V AC/DC control panel, optional sub-panel
Battery pack variations	18pcs 20Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 15A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 20Ah batteries: 5A@3hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max 240 pcs/control panel
Controller module slot number: max. 20pcs, change-over module types	max. 4pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Cable inlets	7xM20, 30xM25, 4xM30
Dimensions	1200mm x 600m x 330mm

**CBS-230V-12 SUB**

Type	Addressable 230V AC/DC sub control panel
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 15A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 20Ah batteries: 4A@3hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max 320 pcs/control panel
Controller module slot number: max. 20pcs, change-over module types	max. 4pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Cable inlets	7xM20, 30xM25, 4xM30
Dimensions	600mm x 600m x 330mm

## CBS-230V-24 AC/DC 1h

Type	Addressable 230V AC/DC control panel with battery pack
Battery pack variations	18pcs 98Ah/78Ah/42Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 98Ah batteries 50A@1 hour, with 78Ah batteries 40A@1 hour, with 42Ah batteries 20A@1 hour
Max. 24-line output with 20pcs addressable devices/line, total number of lights	Max 480 or 560pcss/control panel
Controller module slot number	max. 8pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A max 2 pcs
Dimensions	2100mm x 800mm x 430 mm

## CBS-230V-24 AC/DC 3h

Type	Addressable 230V AC/DC control panel with battery pack
Battery pack variations	18pcs 98Ah/78Ah/42Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 98Ah batteries 25A@3hour, with 78Ah batteries 20A@3hour, with 42Ah batteries 9A@3hour
Max. 24-line output with 20pcs addressable devices/line, total number of lights	Max 480 or 560pcss/control panel
Controller module slot number	max. 8pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A max 2 pcs
Cable inlets	7xM20, 30xM25, 4xM30
Dimensions	2100mm x 800 mm x 430 mm

**CBS-230V-44 AC/DC 1h**

Type	Addressable 230V AC/DC control panel without battery pack
Battery pack variations	18pcs 42Ah/28Ah sealed lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max. 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 42Ah batteries 20A@1 hour, with 28Ah batteries 15A@1 hour
Max load	20A or 15A
Max. 40-line output with 20pcs addressable devices/line, total number of lights	Max. 800 pcs/control panel
Controller module slot number: max. 20pcs, change-over module types	max. 10pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Dimensions	2100mm x 800mm x 430 mm

**CBS-230V-44 AC/DC 3h**

Type	Addressable 230V AC/DC control panel without battery pack
Battery pack variations	18pcs 65/42Ah/28Ah sealed lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max. 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 42Ah batteries 9A@1 hour, with 28Ah batteries 7A@1 hour
Max load	9A or 7A
Max. 40-line output with 20pcs addressable devices/line, total number of lights	Max. 800 pcs/control panel
Controller module slot number: max. 20pcs, change-over module types	max. 10pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Cable inlets	7xM20, 30xM25, 4xM30
Dimensions	2100mm x 800 mm x 430 mm

**CBS-230V-72 AC/DC 1h**

Type	Addressable 230V AC/DC control panel with battery pack
Battery pack variations	18pcs 98Ah/78Ah/42Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max. 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 98Ah batteries 50A@1 hour, with 78Ah batteries 40A@1 hour, with 42Ah batteries 20A@1 hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max. 1200 pcs/control panel
Controller module slot number	max. 20pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A
Dimensions	2100mm x 800mm x 430 mm

**CBS-230V-72 AC/DC 3h**

Type	Addressable 230V AC/DC control panel without battery pack
Battery pack variations	18pcs 98Ah/78Ah/42Ah seal lead acid long life batteries
Battery pack voltage	DC230V
Mains voltage	AC 120-240V 50/60Hz
Max. input current	Max. 50A
Output voltage	AC/DC 230V (AC is normal operation, DC is emergency operation)
Max. output current	with 98Ah batteries 25A@3hour, with 78Ah batteries 20A@3hour, with 42Ah batteries 9A@3hour
Max. 72-line output with 20pcs addressable devices/line, total number of lights	Max. 1200 pcs/control panel
Controller module slot number	max. 20pcs, change-over module types: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A
Battery charger module	EML-BC 4A max 2 pcs
Cable inlets	7xM20, 30xM25, 4xM30
Dimensions	2100mm x 800 mm x 430 mm