



NBOX

MAGNIFICENTLY SMALL GROUP BATTERY SYSTEM



UNIQUE

A group battery system with dimensions as small as this is rare.
Yet the nBox effortlessly outshines similar systems. With 48V low voltage,
state-of-the-art communication technologies and handy apps,
technical variety is seen in its best light:
Secure. Simple. And reliable.



RESERVED

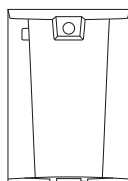
Group battery systems are large, powerful and mighty. With one exception. The nBox isn't just the most compact group battery system on the market – it also dismisses the need for costly structural measures.

ARCHITECTURE

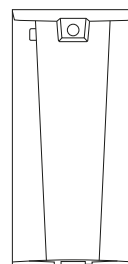
The smaller the box, the more easily it can be integrated in the architecture. As a group battery system in the size of a briefcase, the nBox can even fit in a narrow stairwell. The sleek and compact housing is barely noticeable – neither in modern nor historical buildings.

TECHNOLOGY

The nBox is positioned in a decentralised location, directly in a fire section up to 1600 m² in size. Therefore, it does not require expensive fire protection cabling or additional, fire-safe technology rooms.



nBox S
428 x 308 x 148 mm
(H x W x D)



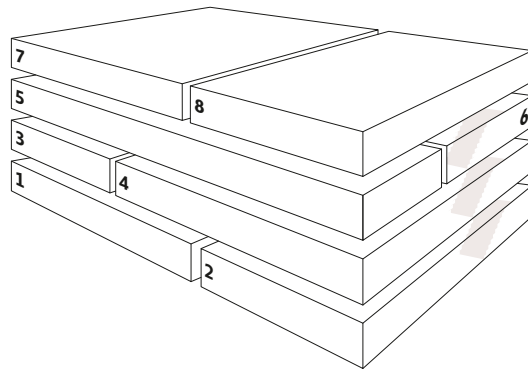
nBox L
648 x 308 x 200 mm
(H x W x D)



VERSATILE

The nBox group battery system reliably supplies and monitors safety lighting both in new buildings and in refurbished properties, in accordance with EN 50171 (central power supply systems).

Every nBox can supply a fire section up to 1600 m² in size. Larger buildings are designed with several fire sections. Through the positioning in the fire section and the division into several independent systems, the level of security increases in comparison with central battery systems.



Diabetes practice, Pirna | DE



Reserved Store, London | UK



Petronas Lubricants International, Turin | IT



MODEST

The nBox exploits all the advantages of low voltage.
A 48-V-DC-system is considerably easier to handle, less time-consuming to install and significantly more efficient to operate.

INSTALLATION

Thanks to its user-friendliness, saving with the nBox starts with the simplified installation. All components of the nBox are clearly arranged, so wiring is quick to complete. Cables with a cross-section of 1.5 mm² are sufficient throughout the entire fire section. Another advantage over 24 V systems is the possibility of doubling the cable extension with the same cross-section.

OPERATION

The cost savings during operation are significant thanks to the lower power consumption and longer service life of the luminaires. Safety signs and safety luminaires are at least 30 % more efficient than in 230 V systems. The simplified power supplies mean the LED drivers last twice as long – even at extreme temperatures.

Ambient temperature	Service life of LED drivers
-30 °C to +35 °C	Ø 200 000 hours
-30 °C to +50 °C	Ø 100 000 hours
-30 °C to +70 °C	Ø 50 000 hours



SOCIALBLE

With seven different connection options, the nBox is a master of simple networking and commissioning. There is no need for special knowledge thanks to the easy-to-use apps.

PLANNING

The nBox Planning web app provides access to the complete system and therefore makes it easier to plan the entire group battery system, including its luminaires.

COMMISSIONING, OPERATION AND MAINTENANCE

The nBox app converts your smart-phone into a handy remote control for commissioning, access during ongoing operation, convenient maintenance and easy-to-retrieve documentation. Addressing and configuration are particularly easy using the PROset App and the PROset Pen with NFC technology.



CONNECTION OPTIONS

TCP/IP	Integrated interface to connect several nBox systems (centralisation of functions and dashboard)
WLAN	Wireless integration in local networks
Bluetooth®	Transfer of the user profile via radio, Bluetooth pairing for switchover from initial BLE* connections (Bluetooth Low Energy) to the more efficient WLAN
DALI "in"	Standardised interface for integration in DALI-based lighting management systems (4 individually controllable circuits for infinitely variable dimming with the general lighting)
System bus	For networking of field devices
Alarm inputs	For automatic activation of emergency operation when the fire alarm button is pressed
Switch inputs	To switch the safety luminaires on and off in mains operation

Housing

Sturdy V2A stainless steel,
powder-coated in white (RAL
9016), IP20, protection class I

Invisible port

Rear, 150 x 30 mm
opening for concealed
cable installation

AC module

For 230 V mains
connection with
main switch and
hardware protection

Mainboard controller

To control
the complete system

Test button

Manual operation
via push-button

Power supply unit with charger

For the clear technical
separation of 230V alternating
voltage from 48V extra-low
voltage in addition to the
supply and safe separation
of the batteries

Certified by TÜV Rheinland



QR code

Direct link to all nBox S
product information on
the Zumtobel website





Cable entry

16 grommets with strain relief for cables with diameters of 6-13 mm, for an IP54-protected upper side of the device

Switch inputs

1kOhm line-monitored, programmable functions for the assignment of luminaire circuits or luminaire groups and for individual luminaire functions

4 slots

To plug in the modular polar circuits (x2 as standard, extension to up to 8 circuits is possible)

Status LEDs

Green and red LEDs show the circuit status at a glance

RJ45 socket

TCP/IP networking for integration in LAN network technology

Battery space

To hold 2x12V 0GiV or 1x24V LiFePO4 batteries

Housing cover

Made of halogen-free polycarbonate, for reliable protection of the system







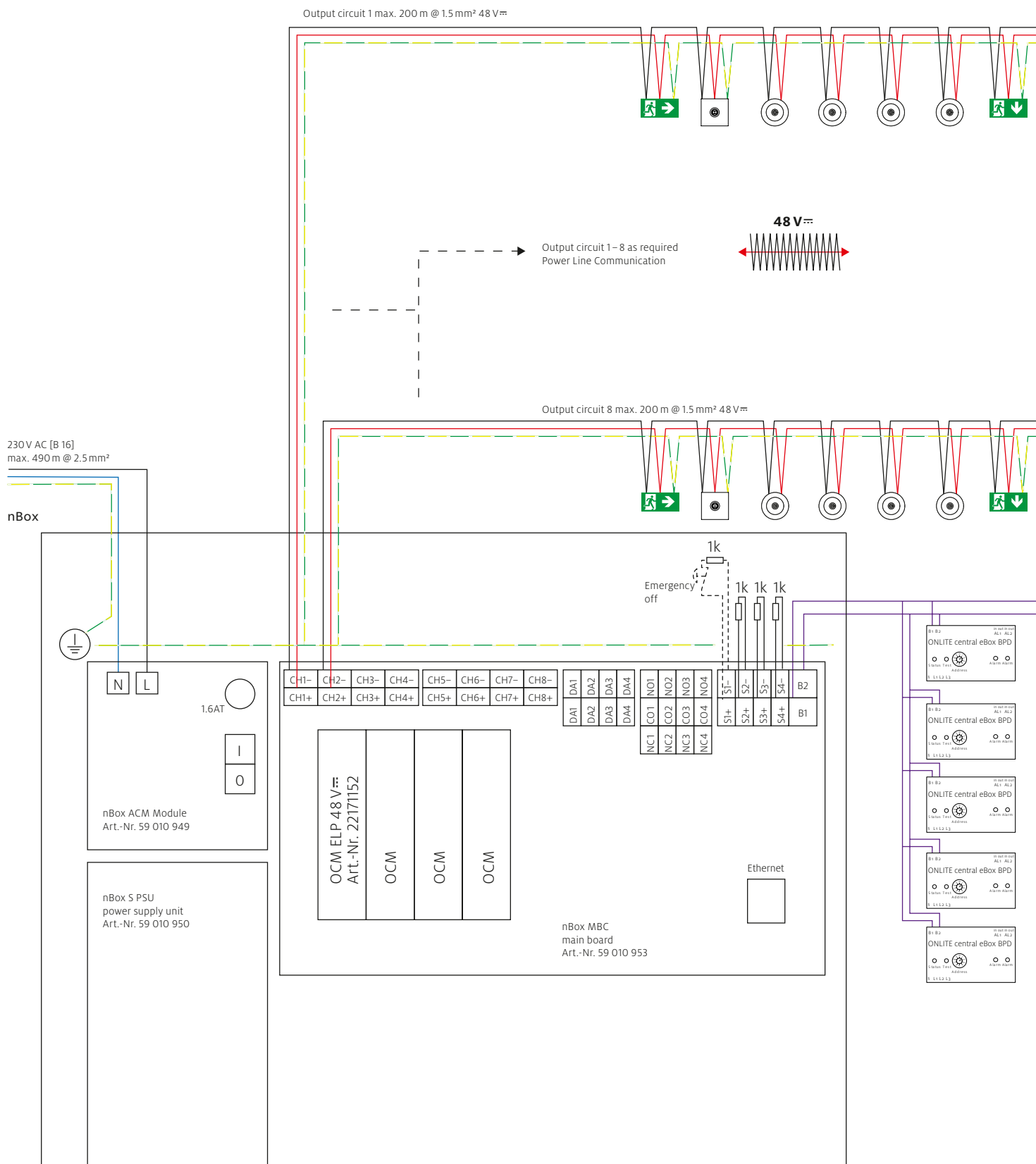
GUARANTEE EXTENSION THROUGH MAINTENANCE AGREEMENT

The scope of ONLITE Maintenance is based on EN 50172, the norm for safety lighting systems, as well as on other country-specific norms, and can be optionally extended with further maintenance activities that extend the life time of the safety lighting system.

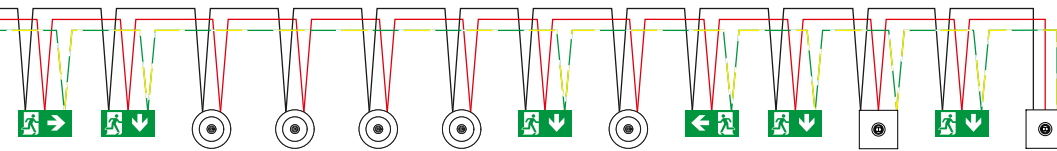
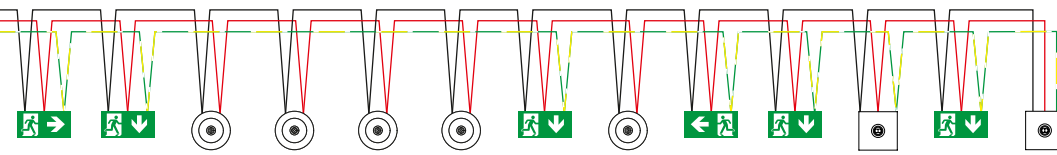
Safety lighting systems are subject to cyclic maintenance, which is required in accordance with EN 50172. With a Zumtobel maintenance agreement for emergency lighting, a specially trained service engineer will carry out a professional inspection of the safety lighting. The added value: The manufacturer's guarantee for nBox is extended to 5 years.

Maintenance ONLITE	Gold	Silver
Services		
Direct access to the local Zumtobel hotline	•	•
Exclusive access to product-related knowledge base	•	•
Zumtobel service booklet with log book	•	•
Prioritised processing	•	•
Compliance with legal regulations and preventive services		
Proactive scheduling of the annual service	•	•
Annual service of the control unit	•	•
Visual check of the safety luminaires incl. documentation	•	
Privileges		
Special rates for Zumtobel spare parts	•	
Special rates for standard hourly rate and travel expenses	•	

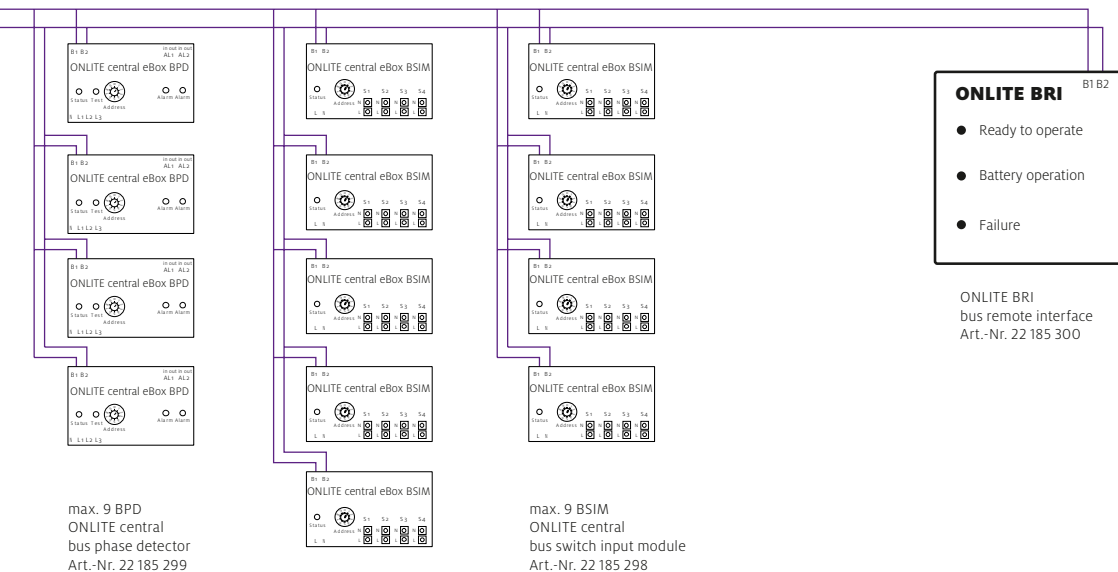
MAXIMUM EXTENSION



NBOX SYSTEM INFORMATION



Systembus max. 300m @ 1.5 mm²





Standby/ready / Ready to operate
Standby/ready / Standby operation
Warning / Failure
Fault

nBox S

nBox L


Dimensions HxWxD	428 x 308 x 148 mm	648 x 308 x 200 mm
Weight without battery	7.6 kg	16.7 kg
Installation	Wall cabinet	Wall cabinet
Housing	V2A steel sheet, powder-coated in white (RAL 9016)	V2A steel sheet, powder-coated in Light grey (RAL 7035)
Cover	Polycarbonate, halogen-free	Polycarbonate, halogen-free
Degree of protection	IP20	IP20
Protection class	SK 1 	SK 1 
Nominal voltage	220 – 240 V 50/60 Hz	230 – 240 V 50 Hz
Fuse protection on-site	B 16 A	B 16 A
Power	Max. 300 VA (full expansion, load-dependent)	Max. 630 VA (full expansion, load-dependent)
Ambient temperature	Permissible for 0 °C to +40 °C Max. battery life time at 20 °C	Permissible for 0 °C to +40 °C Max. battery life time at 20 °C
Cable entry	16 grommets, cable diameter min. 6 mm / max. 13 mm	24 grommets, cable diameter min. 6 mm / max. 13 mm
Opening on rear side	150 x 30 mm	150 x 45 mm
Output voltage	48 V (FELV)	48 V (FELV)
Output power (50W per circuit)	2 x 12 V 12 Ah, DC output power 1 h* 100.5 W, DC output power 2 h* 49.8 W	2 x 12 V 45 Ah, DC output power 1 h* 400 W, DC output power 3 h* 177 W
Output circuits	8 units, 2 units included in delivery	8 units, 4 units included in delivery
Slots	For 4 nBox OCM ELP 48 V $\overline{=}$	For 4 nBox OCM ELP 48 V $\overline{=}$
Final circuit	Line length 200 m @ 1.5 mm ² Cu	Line length 200 m @ 1.5 mm ² Cu
Weight with batteries	Approx. 14.5 kg	Approx. 28.5 / 35.5 / 38.5 / 46.3 kg (17 / 28 / 33 / 45 Ah)

*including the power reserve of 25%
required by the relevant standards



nBox product video

T H E L I G H T



zumtobel.com/contact