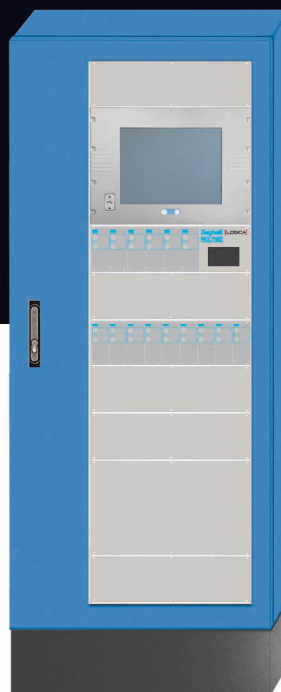


CENTRAL BATTERY SYSTEMS



Beghelli

Design and configuration of NZBVA and NZBVE

The central battery systems NZBVA and NZBVE can be designed according to the instructions below:

1. Determine from the customer's specifications:
 - Quantity and technical details of the exit sign and emergency luminaires to be supplied (lamp type, lamp power, ballast lumen factor and gear)
 - Quantity and technical details of the circuits (maintained mode, non-maintained mode, selectively switchable non maintained mode, selectively switching-on non-maintained mode)
 - Type of luminaire monitoring
 2. Power consumption in mains and battery mode (lamp and gear manufacturer data)¹⁾
 3. Charging unit
 4. Battery
 5. Operation and monitoring modules for the central station (system spreadsheet)
 6. Options for the central station (system spreadsheet)
 7. Output(s) to sub-station(s) if required
 8. Central station (system spreadsheet)
- Type: Identification of the central station:

NZBVA-Z

230/___/___/___/___/___

NZBVE-Z

Rack compartment MULTI CONTROL-I
(0 = no, 1 = yes)

Duration (h) (1=1 h/3=3 h/8 = 8 h)

Rack compartments needed for operation and monitoring modules

Battery capacity (Ah)

Charge current (A)

9. Operation and monitoring modules for the sub-station(s) (system spreadsheet)
 10. Options for the sub-station(s) (system spreadsheet)
 11. Sub-station(s) (system spreadsheet)
- Type: Identification of the sub-station:

NZBVA-UV

/___ -

NZBVE-UV

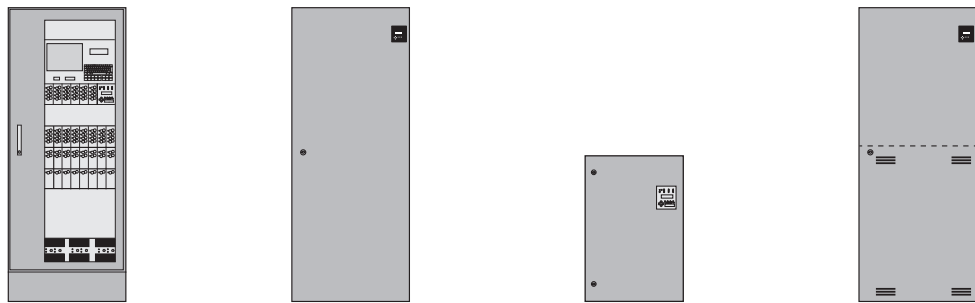
Maintaining fire protection 30 min.(-30)

Rack compartments needed for operation and monitoring modules

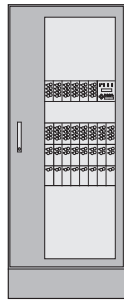
Mounting (S = floor standing/W = wall mounting)

¹⁾ Power consumption of the ECSL, ECKC and EC modules on request.

System spreadsheet NZBVA and NZBVE

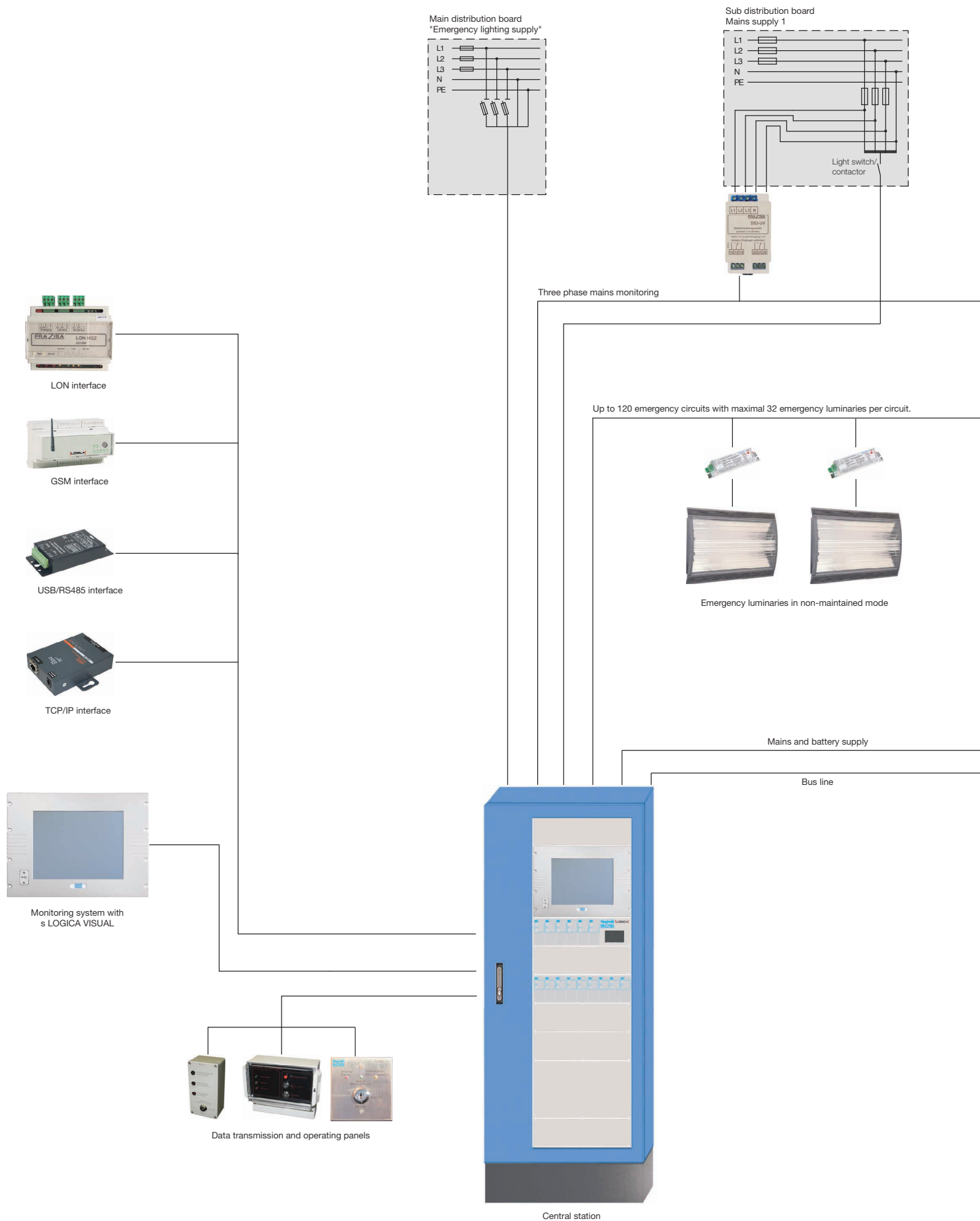


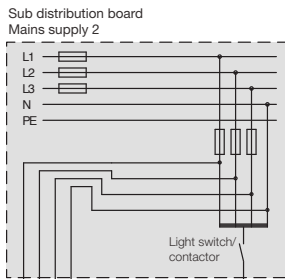
| Typ | NZBVA-Z 230/ _/ _/6 NZBVA-Z 230/ _/ _/14 NZBVA-Z 230/ _/ _/22 NZBVA-Z 230/ _/ _/30 | NZBVE-Z/S 230/ _/ _/6 NZBVE-Z/S 230/ _/ _/14 NZBVE-Z/S 230/ _/ _/22 NZBVE-Z/S 230/ _/ _/30 | NZBVE-Z/A 230/ _/ _/6 NZBVE-Z/A 230/ _/ _/14 | NZBVE-Z/K 230/ _/ _/6 NZBVE-Z/K 230/ _/ _/14 |
|--|---|---|--|---|
| Charging unit L230/1.8 | max. 6 | max. 6 | max. 6 | max. 6 |
| Batteries with a lifetime expectation of 10 years | 33 to 760 Ah | 33 to 200 Ah | 33 to 200 Ah | 33 to 96 Ah |
| Control and monitoring unit KOMBI CONTROL | integrated | integrated | integrated | integrated |
| Built-in printer ED | optional | optional | optional | optional |
| LON-BUS interface | optional | optional | optional | optional |
| Monitoring system LOGICA-Visual | optional | optional | optional | optional |
| USB interface | optional (max. 1) | optional (max. 1) | optional (max. 1) | optional (max. 1) |
| TCP/IP interface | | | | |
| GSM interface | | | | |
| Mains switch/contactor dependent control module LSSA 230/24 | optional (max. 8) (max. 8) (max. 8) (max. 8) | optional (max. 8) (max. 8) (max. 8) (max. 8) | optional (max. 1) (max. 2) | optional (max. 4) (max. 4) |
| Operation and monitoring modules AK 1× 32 EÜ AK 2× 32 EÜ AK 4× 32 EÜ | Rack compartments (max. 6) (max. 14) (max. 22) (max. 30) | Rack compartments (max. 6) (max. 14) (max. 22) (max. 30) | Rack compartments (max. 6) (max. 14) | Rack compartments (max. 6) (max. 14) |
| Operation and monitoring modules AK 1× 32 SÜ AK 2× 32 SÜ AK 4× 32 SÜ | | | | |
| Operation and monitoring module AK 32-SÜ-AC | | | | |
| Design | Floor standing cabinets (electronics and battery) | Floor standing cabinets (electronics and battery) | Wall-mounted cabinet (electronics) Floor standing cabinet (battery) | Floor standing combined cabinet (electronics and battery) |
| Dimensions (H × W × D) | 2000 × 800 × 600 mm | 2000 × 800 × 400 mm | 890 × 800 × 400 mm | 2000 × 800 × 600 mm |



| Typ | NZBVA-U/S 6 NZBVA-U/S 14 NZBVA-U/S 22 NZBVA-U/S 30 | NZBVE-U/S 6 NZBVE-U/S 14 NZBVE-U/S 22 NZBVE-U/S 30 | NZBVA-U/A 6 NZBVA-U/A 14 NZBVE-U/A 6 NZBVE-U/A 14 | NZBVA-U/A 6-30 NZBVA-U/A 14-30 NZBVE-U/A 6-30 NZBVE-U/A 14-30 |
|--|--|--|--|--|
| Charging unit L230/1.8 | – | – | – | – |
| Batteries with a lifetime expectation of 10 years | – | – | – | – |
| Control and monitoring unit KOMBI CONTROL | integrated | integrated | integrated | integrated |
| Built-in printer ED | – | – | – | – |
| LON-BUS interface | – | – | – | – |
| Monitoring system LOGICA-Visual | No | No | No | No |
| USB interface | – | – | – | – |
| TCP/IP interface | | | | |
| GSM interface | | | | |
| Mains switch/contactor dependent control module LSSA 230/24 | optional (max. 8) (max. 8) (max. 8) (max. 8) | optional (max. 8) (max. 8) (max. 8) (max. 8) | optional (max. 1) (max. 2) | optional (max. 4) (max. 4) |
| Operation and monitoring modules AK 1× 32 EÜ AK 2× 32 EÜ AK 4× 32 EÜ | Rack compartments (max. 6) (max. 14) (max. 22) (max. 30) | Rack compartments (max. 6) (max. 14) (max. 22) (max. 30) | Rack compartments (max. 6) (max. 14) | Rack compartments (max. 6) (max. 14) |
| Operation and monitoring modules AK 1× 32 SÜ AK 2× 32 SÜ AK 4× 32 SÜ | | | | |
| Operation and monitoring module AK 32-SÜ-AC | | | | |
| Design | Floor standing cabinet | Floor standing cabinet | Wall-mounted cabinet | Wall-mounted cabinet |
| Dimensions (H × W × D) | 2000 × 800 × 600 mm 2000 × 800 × 600 mm 2000 × 800 × 600 mm 2000 × 800 × 600 mm | 2000 × 800 × 400 mm 2000 × 800 × 400 mm 2000 × 800 × 400 mm 2000 × 800 × 400 mm | 380 × 600 × 350 mm 760 × 600 × 350 mm | 949 × 608 × 324 mm 1149 × 608 × 324 mm |

System spreadsheet NZBVA and NZBVE

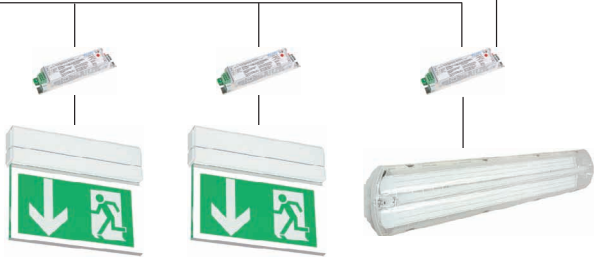




The mains switch control module LSSA 230/24 transfers the status of the mains switches to any emergency lighting circuit or to any emergency luminaire.

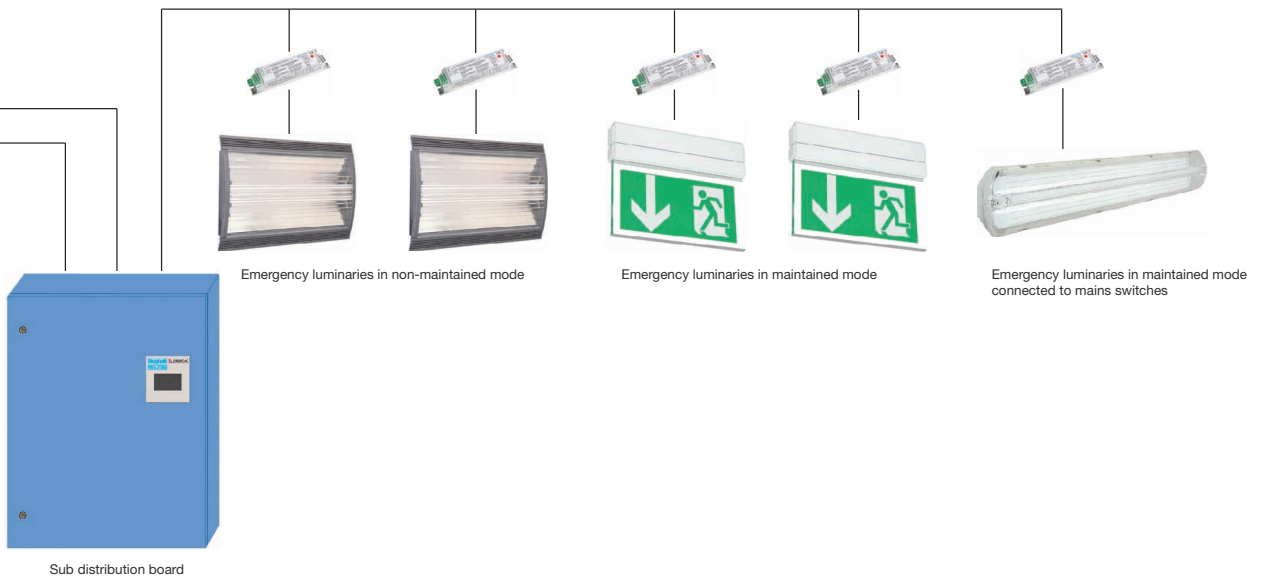


Emergency luminaires may be switched with the light switch by using the LSSA mains switch control module.



Emergency luminaires in maintained mode

Emergency luminaires in maintained mode connected to mains switches



Central station for NZBVA



Central station NZBVA-Z acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1.8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules

Control cabinet including a lockable door with inspection pane and detachable frame. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
U: 230 V (+6%/-10)
3 ~ N PE 50/60 Hz
U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035

Colour of modules: black/red

Cable entry: from bottom

Cabinet: Steel sheet

Mounting: Floor standing

Degree of protection: IP 54

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007

or

light grey RAL 7035

Colour of modules: grey/blue



Central station for NZBVE KOMBI



Central station NZBVE KOMBI acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1.8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (with separate control cabinet)

Control cabinet with lockable door and inspection pane. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
U: 230 V (+6%/-10)
3 ~ N PE 50/60 Hz
U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035

Colour of modules: black/red

Cable entry: from top

Cabinet: Steel sheet

Mounting: Floor standing

Degree of protection: IP 21

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007

or

light grey RAL 7035

Colour of modules: grey/blue



Central station for NZBVE



Central station NZBVE-Z acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1.8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules (with combined control and battery cabinet)
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (with separate control cabinet)

Control cabinet with lockable door and inspection pane. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
 U: 230 V (+6%/-10)
 3 ~ N PE 50/60 Hz
 U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035

Colour of modules: black/red

Cable entry: from top

Cabinet: Steel sheet

Mounting: Floor standing

Degree of protection: IP 21

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007

or

light grey RAL 7035

Colour of modules: grey/blue



Charging unit for NZBVA and NZBVE



Charging unit L230/1.8

Temperature-controlled charging based on IU characteristic with charging mode-dependent switching from charging to maintaining battery charging (float charging). When multiple charging units are used, each of them is independent from the other.

Technical data

Charge voltage: 244 V

Charge current: 1.8 A

Design: 19" rack insert
 (1 rack compartment)

Type: L230/1.8

Order no.: G32893-SL

Colour of modules: black/red

Order no.: G32893-AL

Colour of modules: grey/blue



Batteries for NZBVA and NZBVE

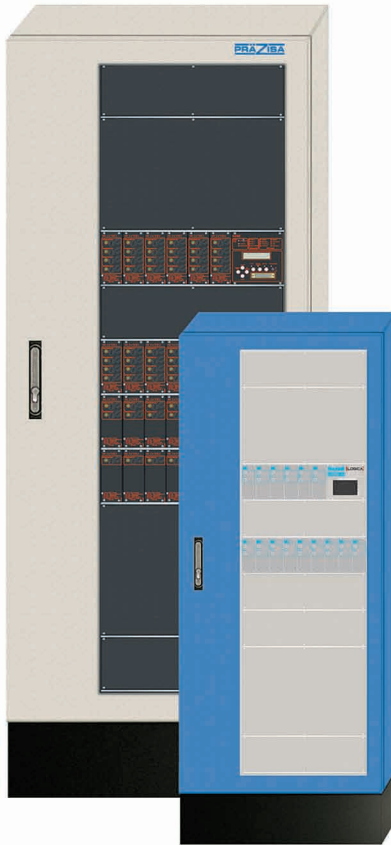


Batteries

Sealed lead-acid battery with a lifetime expectation of 10+ years at an ambient temperature of 20°C acc. to EN 50171. Battery capacity 33 Ah up to 760 Ah.

Further information about battery details available on request.

Sub-station for NZBVA (floor standing)



Sub-station NZBVA-U/S acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules

Cabinet with lockable door, inspection pane and detachable frame. Modules for 19" rack technology.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
U: 230 V (+6%/-10)
3 ~ N PE 50/60 Hz
U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035

Colour of modules: black/red

Cable entry: from bottom

Cabinet: Steel sheet

Mounting: Floor standing

Degree of protection: IP 54

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007

or

light grey RAL 7035

Colour of modules: grey/blue



Sub-station for NZBVE (floor standing)



Sub-station NZBVE-U/S acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (system with separate control cabinet)

Cabinet with lockable door and inspection pane. Modules for 19" rack technology.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
U: 230 V (+6%/-10)
3 ~ N PE 50/60 Hz
U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035

Colour of modules: black/red

Cable entry: from bottom

Cabinet: Steel sheet

Mounting: Floor standing

Degree of protection: IP 54

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007

or

light grey RAL 7035

Colour of modules: grey/blue



Sub-station for NZBVA and NZBVE (wall mounting)



Sub-station NZBVA-U/A or NZBVE-U/A acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules

Cabinet with lockable door and inspection pane. Modules for 19" rack technology.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
 U: 230 V (+6%/-10)
 3 ~ N PE 50/60 Hz
 U: 400 V (+6%/-10)

Battery supply: U = 216 V

Fuses and terminal blocks according to technical specification

SlebLOGICA system:

Cabinet colour: light grey RAL 7035
 Colour of modules: black/red

Cable entry: from top

Cabinet: Steel sheet

Mounting: Wall mounting

Degree of protection: IP 54

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

AutoLOGICA system:

Cabinet colour: brilliant blue RAL 5007
 or
 light grey RAL 7035

Colour of modules: grey/blue



Sub-station with 30 minutes rated fire protection for NZBVA and NZBVE (wall mounting)



Sub-station NZBVA-U/A-30 or NZBVE-U/A-30 acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules

Cabinet with maintaining fire protection of 30 minutes following DIN 4102-2 with lockable door. Modules for 19" rack technology.

Technical data

Mains supply: 1 ~ N PE 50/60 Hz
 U: 230 V (+6%/-10)
 3 ~ N PE 50/60 Hz
 U: 400 V (+6%/-10)

Battery supply: U = 216 V

Cable entry: From top via a fitted cable entry to which a fire protected cable duct can be tightly connected.

Body: Highly compressed fire protection panels

Surface coating: Sprela, grey (similar to RAL 7035)

Mounting: Wall mounting

Degree of protection: IP 54

Electrical class: I

Rated ambient temperature: -5 °C to +35 °C

Fuses and terminal blocks according to technical specification

