

TKX67xxC

Central Battery System



SYSTEM DESCRIPTION

Central battery units in the TKX67C series offer effective solution for supplying a large quantity of luminaires. They are especially suited for large premises.

The central unit input voltage is a 3 phase supply. The output voltage is 230VAC in normal mode and 216VDC in battery mode. The battery voltage is 216V which is achieved by connecting eighteen 12 volt batteries in series.

In addition to the normal emergency lighting functions, central battery units in the TKX67C series makes it possible to test automatically the condition of the central unit itself and the luminaires connected to it. The testing of luminaires is based on individual addresses and the communication is by means of the power supply cables. Thus there is no need for any separate data cabling between the luminaires. The luminaires must be of a

Teknolux model number ending with letter K or they must have a separate address module. Utilisation of these luminaires also enables the connection of maintained and non-maintained luminaires to the same circuit and allows local supply monitoring using Local Controller or Intelligent Controller which can also be used to control the non-maintained emergency lights.

These central battery units have, depending on the model, either 16, 24, 32, 40, 48 or 56 output circuits which can be set to function as maintained or non-maintained. A maximum of 32 addressable luminaires can be connected to one circuit. Circuits can also be connected in parallel to increase the output power with the following changeover module outputs possible: 8x350VA, 4X700VA or 2x1400VA.



FEATURE & BENEFITS

- Reliable solutions as each panel has dedicated batteries and operates independently.
- 16, 24, 32, 40, 48 or 56 output circuits panel options available.
- Max. 32 luminaires per circuit
- Charger designed as per EN50171 standards for 80% recharge in 12 hours
- Panel tested & certified to EN50171 standard by SGS Fimko
- Less installation cost with no dataline required to luminaires
- Maintained, Non-maintained & Switch

- maintained can be connected on the same circuit
- All connected luminaires can be automatically searched and updated on the panel
- Electronics and batteries are in independent cabinets offering flexibility in installation, especially where space is a constraint.
- Compact electronics cabinet.

TECHNICAL DATA

- Input voltage - 220-240V AC, 50/60Hz, 3 phase
- Output voltage under normal conditions - 220-240VAC
- Output voltage in battery mode 216VDC
- Battery voltage of 216V is generated by 18 pieces of 12V batteries connected in series.

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| Product Code | Max Input Power (Mains) | Number of Circuits Outputs | Max Total Load | | | Weight (kg) |
|--------------|-------------------------|---|-----------------|-----------------------|-----------------------|-------------|
| | | | Mains Operation | 1Hr Battery Operation | 3Hr Battery Operation | |
| TKX6716C | 8450VA | 16 circuits each 350 W 2x (8x350 W / 4x700 W / 2x1400 W) | 5600 VA | 5600 W | 5600 W | 120,0 |
| TKX6724C | 14000VA | 24 circuits each 350 W 3x (8x350 W / 4x700 W / 2x1400 W) | 8400 VA | 8400 W | 8400 W | 121,0 |
| TKX6732C | 16800 VA | 32 circuits each 350 W 4x (8x350 W / 4x700 W / 2x1400 W) | 11200 VA | 11200 W | 11200 W | 122,0 |
| TKX6740C | 19600 VA | 40 circuits each 350 W 5x (8x350 W / 4x700 W / 2x1400 W) | 14000 VA | 14000 W | 14000 W | 123,0 |
| TKX6748C | 25150 VA | 48 circuits each 350 W 6x (8x350 W / 4x700 W / 2x1400 W) | 16800 VA | 16800 W | 16800 W | 124,0 |
| TKX6756C | 27950 VA | 56 circuits each 350 W 7x (8x350 W / 4x700 W / 2x1400 W) | 19600 VA | 19600 W | 19600 W | 125,0 |

- Output voltage: 230V AC/DC
- Batteries: 18x12V (216V)
- Max battery capacity: 450Ah
- Nominal supply voltage: 3-N/PE 220-
- 240/380-415 VAC, 50/60 Hz
- Required short circuit current, when using 2.5 A fuse, applying 0.4 s tripping time: 10 A
- Max load inrush current: 350W circuit
- (1 circuit): 120 A/1ms, 700W circuit (2 circuits parallel): 250 A/1 ms, 1400W circuit (4 circuits parallel): 300 A/1ms

OPTIONAL FEATURES

| Product Code | Product Description | For |
|-----------------------------------|---|----------|
| TST6731 | Integrated Printer | TKX67xxC |
| TST6732 | LCD Display Module | TKX67xxC |
| TST6752 | IC Interface for 16 circuits each 350 W | TKX6716C |
| TST6753 | IC Interface for 24 circuits each 350 W | TKX6724C |
| TST6754 | IC Interface for 32 circuits each 350 W | TKX6732C |
| TST6755 | IC Interface for 40 circuits each 350 W | TKX6740C |
| TST6756 | IC Interface for 48 circuits each 350 W | TKX6748C |
| TST6757 | IC Interface for 56 circuits each 350 W | TKX6756C |
| Central Monitoring Options | | |
| TST6701 | BACnet Interface | TKX67xxC |
| TST6721 | ACM Interface | TKX67xxC |
| TST6724 | WebCM / WebACM Interface | TKX67xxC |
| TST1811E | BCM Interface | TKX67xxC |

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DIMENSIONS

