IP20

NLV-LED 48

LED emergency lighting supply module for luminaire installation
Self-contained emergency lighting supply module for powering a constant current LED luminaire with seperate controlgear, according EN 60598-1 and EN 60598-2-22.
Adjustable system duration of 1h, 3h and 8h.
Adaptive adjustment of the LED current using an integrated measuring routine that measures the LED current of the installed controlgear. This guarantees the best possible output power, depending on the installed battery capacity and the set system duration.
Optional battery heater (AkH) to extend the temperature range down to -20°C.



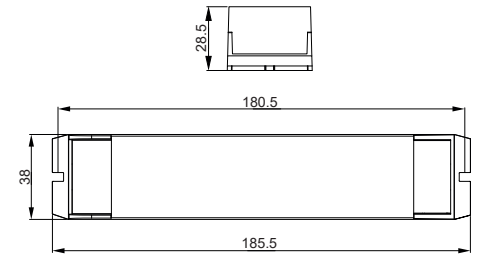
Equipment

- LED emergency lighting supply module for luminaire installation
- Suitable for LED voltages from 20 to 48 VDC
- Adjustable rated duration of 1h, 3h and 8h
- Adaptive adjustment of the LED current using an integrated measuring routine
- Electronics with automatic test setup - Errors are displayed via status LED, or reported to control panel

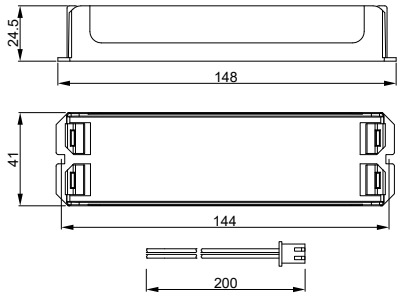
Technical specifications

Voltage supply	230V 50/60Hz
Power consumption mains operation	10.5 VA / 5.5 W / 40 mA
Output voltage	20 - 48 VDC
Output current	80 - 1050 mA
Connecting terminals	2.5 mm² (mains) / 1.5 mm² (LED and controlgear)
Material	Polycarbonate
Version	Constant current
Mounting type	Luminaire installation
Ambient temperature	0°C to +35°C
	-20°C to +35°C (AkH)
Dimensions (W x H x D)	185.5 x 28.5 x 38 mm
Dimensions battery (W x H x D)	148 x 24.5 x 41 mm
Protection class	IP20
Safety class	II

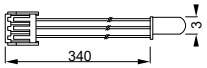
NLV



Battery



SELF-LED

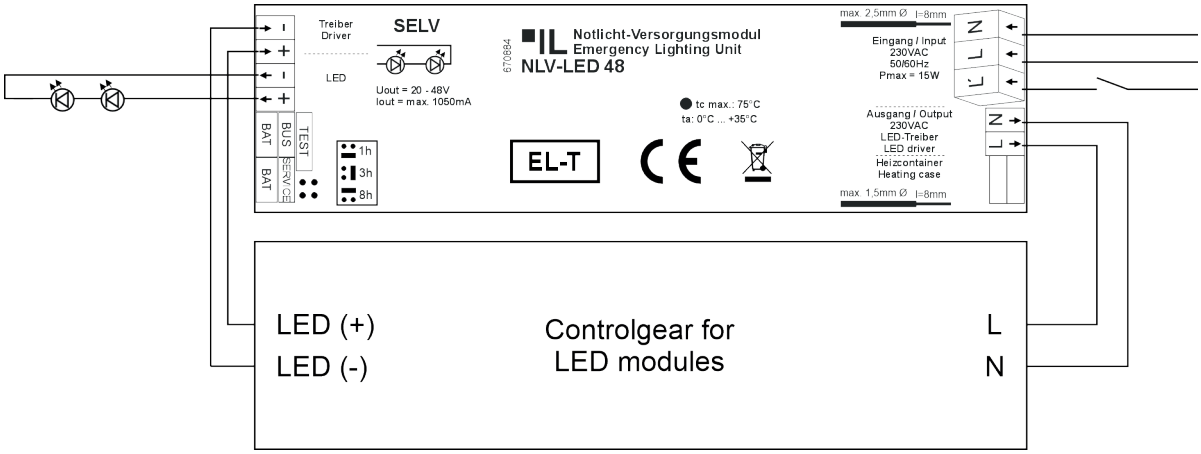


Variants

Productname	Battery duration	Power	Battery capacity
NLV-LED 48 EB-SC - 1/3/8h - 4,2Ah	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah
NLV-LED 48 EB-SL - 1/3/8h - 4,2Ah	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah
NLV-LED 48 EB-SWX - 1/3/8h - 4,2Ah	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah
NLV-LED 48 EB-SC - 1/3/8h - 8,4Ah	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah
NLV-LED 48 EB-SL - 1/3/8h - 8,4Ah	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah
NLV-LED 48 EB-SWX - 1/3/8h - 8,4Ah	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah
NLV-LED 48 EB-SC - 1/3/8h - 4,2Ah + AkH	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah + AkH
NLV-LED 48 EB-SL - 1/3/8h - 4,2Ah + AkH	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah + AkH
NLV-LED 48 EB-SWX - 1/3/8h - 4,2Ah + AkH	1h/3h/8h	8.5 - 9 W / 3 - 3.5 W / 1 W	4.8V 4.2Ah + AkH
NLV-LED 48 EB-SC - 1/3/8h - 8,4Ah + AkH	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah + AkH
NLV-LED 48 EB-SL - 1/3/8h - 8,4Ah + AkH	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah + AkH
NLV-LED 48 EB-SWX - 1/3/8h - 8,4Ah + AkH	1h/3h/8h	12 - 12.5 W / 7 - 7.5 W / 2.5 W	2x 4.8V 4.2Ah + AkH

Technical changes reserved / 15.11.2026

Wiring


Treiber
Driver
LED
SELV
Uout = 20 - 48V
Iout = max. 1050mA
Notlicht-Versorgungsmodul
Emergency Lighting Unit
NLV-LED 48
tc max.: 75°C
ta: 0°C ... +35°C
EL-T
max. 2,5mm Ø l=8mm
Eingang / Input
230VAC
50/60Hz
Pmax = 15W
Ausgang / Output
230VAC
LED-Treiber
LED driver
Heizcontainer
Heating case
max. 1,5mm Ø l=8mm
BAT
BUS
SERVICE
TEST
1h
3h
8h
N
L
LED (+)
LED (-)
Controlgear for
LED modules
L
N