

Product features

- Built-in non isolated adjustable power LED driver
- Supports PWM dimming
- Color temperature adjustable
- DIP control adjusts the current
- 12 V 0.1 A Auxiliary source
- Flicker free LED driver
- Output current 50...400 mA by dip switch adjust
- Max. output power 20 W
- For luminaires with protection class I
- 5 years warranty



Product specifications

163618 ID ELNCB 20/230/50-400 PWM DIP B

| Output current | Input voltage | Output voltage | Efficiency @ full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|----------------|--------------------------------|----------------|------------------------|------------------|--------------|----------------------|
| 50 mA | 220...240 Vac 220...240 Vdc | 25...60 Vdc | 78% | ± 15 mA | 0.7 | 193x30x21 |
| 100 mA | | 25...60 Vdc | 84% | | 0.8 | |
| 150 mA | | 25...60 Vdc | 87% | | 0.9 | |
| 200 mA | | 25...60 Vdc | 88% | | 0.9 | |
| 250 mA | | 25...60 Vdc | 88% | ± 5% | 0.95 | |
| 300 mA | | 25...60 Vdc | 89% | | 0.95 | |
| 350 mA | | 25...60 Vdc | 90% | | 0.95 | |
| 400 mA | | 25...52 Vdc | 89% | | 0.95 | |

Electrical specifications

Mains voltage supply

| | |
|---------------------------|-----------------|
| Rated input voltage range | 220...240 Vac |
| Max. input voltage range | 198...264 Vac |
| Rated frequency range | 0/50/60 Hz |
| Max. input current | 0.2 A @ 230 Vac |

Battery operation

| | |
|-----------------------|---------------|
| DC voltage range | 220...240 Vdc |
| Max. DC voltage range | 198...280 Vdc |

Protection against voltage peaks

| | |
|----------------------|---------------------------------|
| Withstand voltage | I/p-FG: 1.5 kVac, < 5 mA 60 sec |
| Mains surge immunity | L-N 1 kV, L-FG 2 kV, N-FG 2 kV |

Total harmonic distortion (THD)

| | |
|--|-----|
| At rated input voltage range @ full load | 10% |
|--|-----|

Output data

| | |
|--------------------------|--|
| Output current tolerance | 50...250 mA \pm 15 mA at rated input voltage range |
| Output current tolerance | 300...400mA \pm 5% at rated input voltage range |
| No load output voltage | 160 Vdc |
| Ripple output current | 5 % (ripple = peak/average total 100 Hz) |
| Turn-on Delay time | 0.5 s at full load @ low rated input voltage |
| Output PstLM | \leq 1 at full load @ rated input voltage |
| Output SVM | \leq 0.4 at full load @ rated input voltage |

Protection functions output side

| | |
|--------------------------|---|
| Overvoltage protection | The output voltage is less than or equal to 160 V |
| Short circuit protection | Yes |

Dimming operation and interface

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|---------------------------|--------------|
| Standby power consumption | \leq 0.5 W |
|---------------------------|--------------|

Connection terminals

| | |
|--------------------------|--|
| Connection terminal type | 45° push in terminal |
| Wire cross section | Input wire: 0.5...1.5 mm ² , output wire: 0.2...1.5 mm ² |
| Wire stripping length | 8...9 mm |

Degree of protection

| | |
|-------------------|------|
| Protection rating | IP20 |
|-------------------|------|

Operating data

| | |
|----------------------|--|
| Output current range | DIP control adjusts the current: 50...400 mA |
| Default current | 50 mA |
| Output voltage range | 25...60 Vdc |
| Noise level | < 20 dB, at full load @ 100 cm distance |

Circuit breaker / Inrush current

| | | | | | |
|----------------------|----------------------------|-----|------------------------------------|-----|-----|
| MCB loading quantity | Inrush current Ipeak: 22 A | | Inrush current Twidth: 140 μ s | | |
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 21 | 35 | 34 | 57 |

Supplementary instructions

- It is recommended that customers install under voltage protection and surge protection devices in the power supply circuit of lamps to ensure the safety of electricity consumption.
- The power supply is used in combination with the terminal equipment as a part of the whole lamp. Because the EMC performance is affected by LED lamps and wiring, the terminal is set in case the manufacturer needs to reconfirm the EMC of the whole device.
- The outputs of drivers cannot be in paralleled.
- Short circuit protection: Hiccup mode protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Environmental specifications

| | |
|------------------------|--|
| Operating temperature | -20...+55°C |
| Storage temperature | -25...+85°C |
| Working humidity | 10%...90% |
| Store humidity | 5%...95% |
| Lifetime | at Tc 75°C: 50,000 hrs; at Tc 65°C: 100,000 hrs; @ 230 Vac |
| Maximum Tc temperature | 75°C |

Safety & EMC compliance

| ENEC+CE | CCC | SAA |
|---------|-----|-----|
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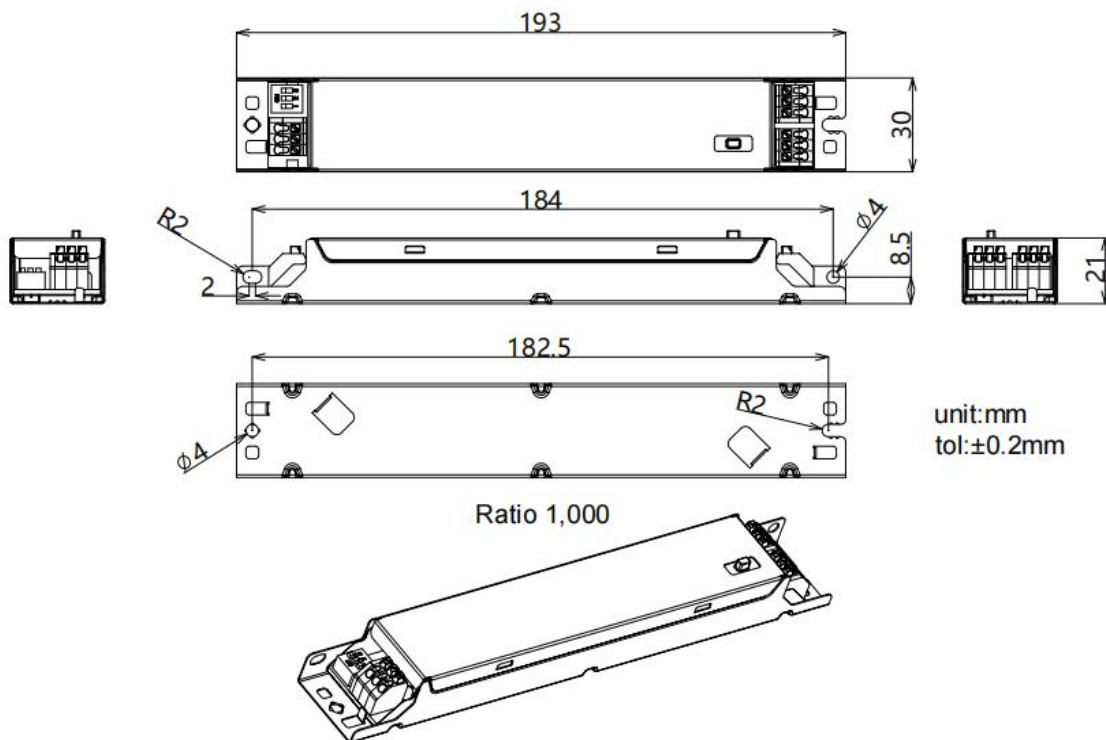
Dimensions

Housing dimensions

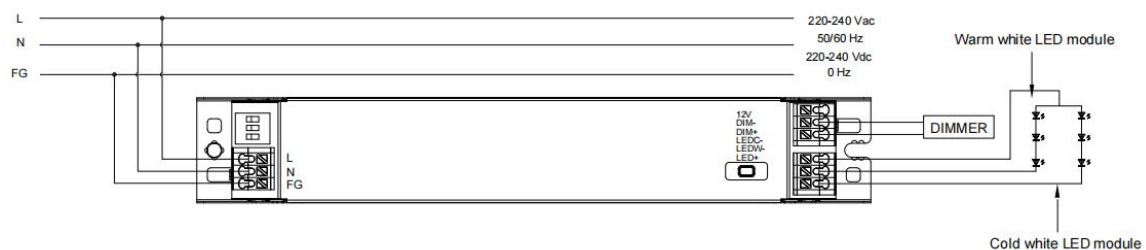
| | |
|------------|---------|
| Length (L) | 193 mm |
| Width (W) | 30 mm |
| Height (H) | 21 mm |
| Weight | 0.11 kg |

Packaging details

| | |
|---------------|--------------------|
| Packing units | 60 pcs |
| Carton size | 317 x 203 x 160 mm |
| Weight | 7 kg |



Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5 - 10 cm is preferred).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Technical information

