



LED Power Driver 20 W

Optimal choice for refrigerated cabinets and display lighting



LED Power Driver 80 W

Philips Xitanium Constant Voltage Outdoor LED drivers

These Xitanium Constant Voltage Outdoor LED drivers are the perfect choice for enabling easy modular parallel connection of Philips LED products (like LDM and InteGrade families) used in refrigerated cabinets and display lighting. The drivers have an operating life matching that of LEDs. They offer excellent reliability and ensure a simplified installation process. Robust design reduces maintenance and lowers the cost of ownership over the application lifetime. With the universal mains voltage (100-240 V) you can install them in practically any location. All types have been tested according IP 54.

Benefits

- SELV operating voltages ensure safety even if wiring or LED boards become damaged
- Easy installation with simple parallel wiring
- Excellent reliability

Product features

- Universal mains voltage (100-240 V) generating 24 VDC
- Stable limited output voltage
- Safety Extra Low Voltage (SELV)
- Short circuit protection
- Lifetime upto 50.000 hours

Applications

- Shelf and linear accent lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

Compliance and approvals

- CE
- UL
- CSA
- VDE¹
- IEC 60335-2-89

Notes:

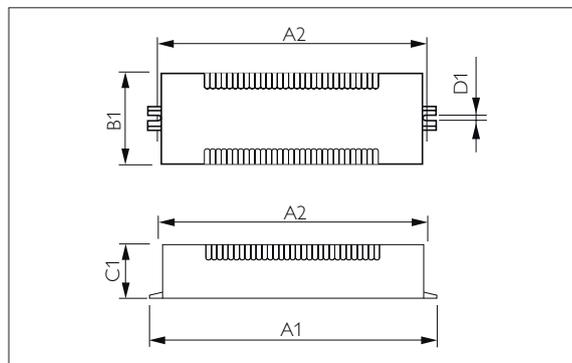
1. Not on 80 W 24 V

Product specifications

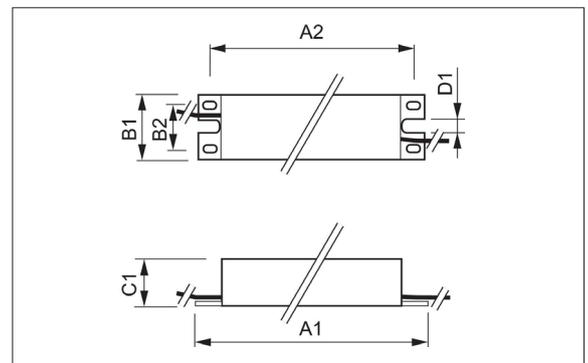
| Input | | | | |
|---------------------------|----------|------------------|------------------|------|
| parameter | Symbol | 20 W-24 V driver | 80 W-24 V driver | Unit |
| Input voltage range | V_{in} | 100-240 | 100-240 | V |
| Frequency | f | 47-63 | 47-63 | Hz |
| Power consumption range | P_{in} | 25 max. | 96 max. | W |
| Power factor* | Pf | 0.9 min | 0.9 min | |
| Total harmonic distortion | THD | 20 | 20 | % |
| Efficiency* | - | 80% typical | 80% typical | % |

* at full load

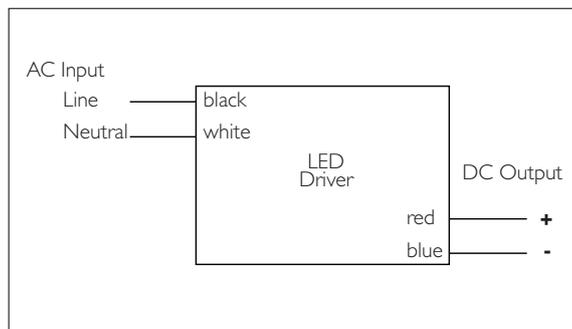
| Output | | | | |
|--------------------------|----------|------------------|------------------|------|
| parameter | Symbol | 20 W-24 V driver | 80 W-24 V driver | Unit |
| Output voltage range | V_{in} | 23-25.6 | 23-25.6 | V |
| Output current | I_a | 0.85 | 3.3 | A |
| Output voltage ripple | - | 1.0 | 1.0 | % |
| Short circuit protection | - | yes | yes | - |



Dimensions Philips LED Power Driver 20 W



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Wiring diagram of the 20 and 80 W LED Power Driver.

Dimensions in mm

| Driver type | A1 | A2 | B1 | B2 | C1 | D1 |
|-------------|-------|-------|------|------|------|-----|
| 20 W | 140.0 | 130.0 | 37.0 | - | 25.0 | 4.4 |
| 80 W | 241.0 | 228.6 | 43.1 | 26.6 | 30.0 | 4.4 |

Notes:

1. Drawings are not to scale.
2. Two mounting slots for M4 or #6 screws.
3. Lead wires: 300 mm length, 0.8 mm² solid-core copper.

Ordering info

| Type | Qty. box packing (pcs) | 12NC | European Order Code (EOC) |
|---|------------------------|----------------|---------------------------|
| LED Power Driver outdoor 100-240V 20W 24V | 10 | 9290 006 54006 | 871829121524000 |
| LED Power Driver outdoor 100-240V 80W 24V | 10 | 9290 006 53906 | 871829121526400 |



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www.philips.com/ledrefrigeration