

50W Intelligent LED Driver MU050A105BQ10 (DALI, 2Chs)

Features

- Adjustable current range from 200mA to 1050mA.
- Flicker-free dimming from 100% to 0.1%, gamma-corrected curve.
- Built-in DALI capability, 2chs
- Compact size, high performance, high reliability
- 2-year warranty



73.2 × 126.7 × 28.5mm

Electrical Specifications

| | |
|----------------------|--|
| Input voltage range | 100~277VAC |
| Frequency | 43~67Hz |
| Input current | 0.7A(MAX) |
| Rated power | 50W |
| Power factor | 0.98 at 110VAC; 0.94 at 220VAC (typical) |
| Efficiency | 90% (typical) at 220 VAC; 89% (typical) at 110 VAC |
| Output voltage range | 56VDC (Max) |
| Output current range | 200mA~1050mA (settable) |
| Current accuracy | ± 3% |
| Protections | Over voltage, short circuit, over temperature: auto recovery |

Environmental Specifications

| | |
|---------------------------------|--------------------------|
| Operating temperature | -20°C ~ +60°C |
| Storage temperature | -40°C ~ +85°C |
| Maximum case temp. | 85°C |
| Cooling method | Convection |
| Reference dimension (L x W x H) | 73.2 × 126.7 × 28.5 (mm) |

Safety & EMC Compliance

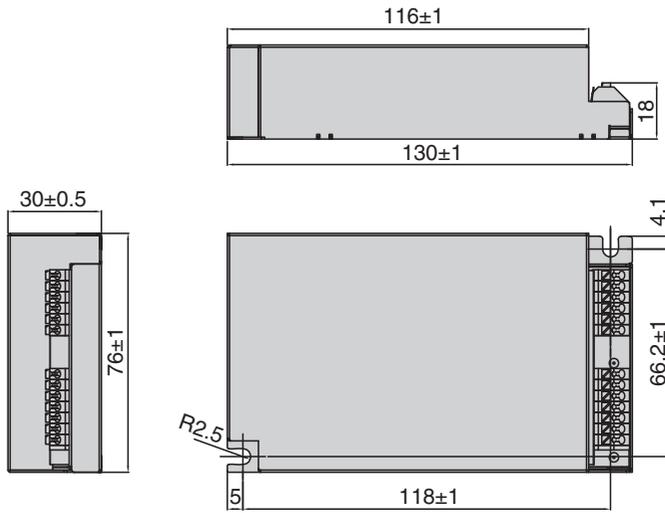
| | |
|--------------------------|-------------------------|
| CUL | UL8750, UL1310 |
| CE | EN61347-1, EN61347-2-13 |
| Conducted emissions | FCC Level B / EN55015 |
| Radiated emissions | FCC Level B / EN55015 |
| Electromagnetic immunity | EN61547 |

Function Description

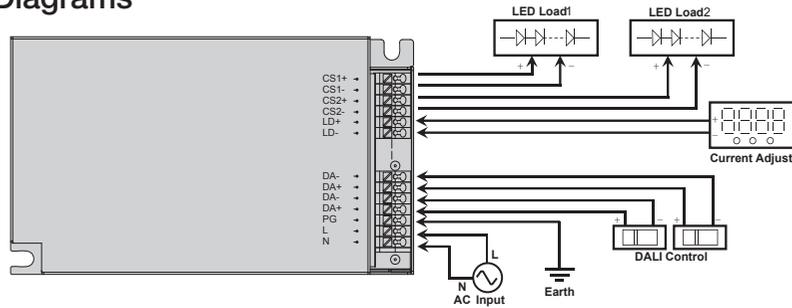
- **Adjustable current output:**
The current output can be programmed in 50 mA steps from 200 mA to 1050 mA.
This programming can be done at the factory or in the customers place of business.
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.
- **Resolution:** 20 bit resolution
- **Dimming:** Supports a wide range of dimming from 0.1% to 100% with linear or gamma corrected dimming curve & flicker-free at all levels.
- **High Efficiency:** 90% over a wide power range
- **Interface:** LED Code
- **Temperature Management:** By connecting a 47'Ω NTC thermistor, temperature feedback is provided to insure that normal LED operating temperatures are maintained.
- **Programming (internal)(optional):**
 - (a) temperature (see above), (b) time-of-day, (c) output current,
 - (d) LED bridging (e) LED aging (current compensation at the 30% end of life)

Mechanical Outline (unit: mm)

Model Specifications-MU050A105BQ10 (DALI, 2Chs)



Schematic Diagrams



numbering system

LED driver
- Outdoor
- PU series

LED driver
- Outdoor
- MU series

LED driver
- Outdoor
- Other series

LED driver
- Indoor
- PE series

LED driver
- Indoor
- Other series

LED driver
- Intelligent series

general power supplies
- MF series

general power supplies
- MS series