

# 50W Intelligent LED Driver MU050A105BQI0 (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℃ ~ +60℃
Storage temperature	-40℃ ~ +85℃
Maximum case temp.	85℃
Cooling method	Convection
Reference dimension (L x W x H)	73.2 × 126.7 × 28.5 (mm)

## Safety & EMC Compliance

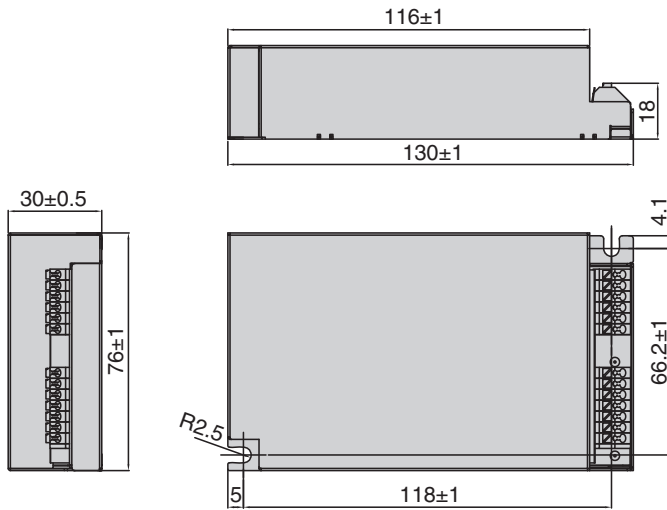
CUL	UL8750, UL1310
CE	EN61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level B / EN55015
Electromagnetic immunity	EN61547

## Function Description

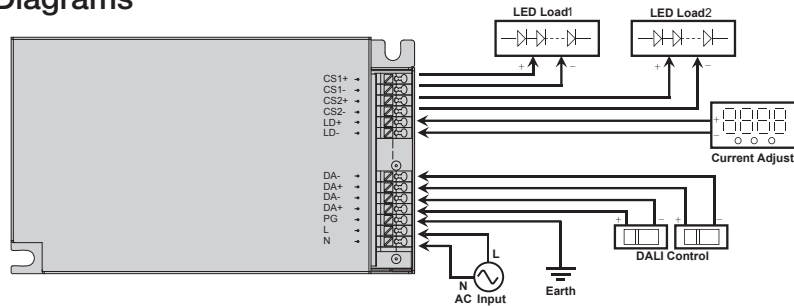
- Adjustable current output:  
The current output can be programmed in 50 mA steps from 200 mA to 1050 mA.  
This programming can be done at the factory or in the customers place of business.  
This permits optimization of the the current for the LED light engine and conformance to Energy Star Requirements.
- 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-MU050A105BQI0 (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