

## LF-GIT030YB0800H(S)

GIT\*YB SELV 7-output current | Constant Current - Non dimmable



### Product family features

- Low THD<15% @full load
- Rated supply range: 220–240 VAC
- Ta range: -20 - +40 °C
- Ripple current<5%
- 5 years guarantee

### Product family benefits

- Output current adjustable via DIP switch with 7-shift
- Flicker free; SELV output
- Long lifetime and high reliability

### Typical applications

- For track light
- For office, commercial, decorative and retail lighting, etc.

### Product parameters

- |  |                           |
|--|---------------------------|
| — Output current 500/550/600/650/700/750/800mA | — Output voltage 25-40Vdc |
| — Output power 13-32W                          | — Efficiency 88.5%        |
| — Input voltage 198–264Vac                     |                           |

## Electrical data

### Input data

|   |                     |
|---|---------------------|
| Nominal input voltage                   | 220...240V          |
| Input voltage AC                        | 198...264V          |
| Mains frequency                         | 50/60Hz             |
| Power factor                            | ≥0.95               |
| Efficiency                              | 88.5% <sup>1)</sup> |
| THD                                     | ≤15%                |
| Input current                           | 0.2A Max            |
| Inrush current                          | 20A <sup>2)</sup>   |
| Loading no. on circuit breaker 10 A (B) | 22                  |
| Loading no. on circuit breaker 10 A (C) | 37                  |
| Loading no. on circuit breaker 16 A (B) | 36                  |
| Loading no. on circuit breaker 16 A (C) | 61                  |
| Protective conductor current            | ≤0.7mA              |

### Output data

|                                |   |
|--------------------------------|---|
| Nominal output voltage         | 25... 40V <sup>3)</sup>                           |
| Nominal output current         | 500/550/600/650/700/750/800mA                     |
| Default output current         | 800mA   |
| Current set                    | DIP switch (please see the DIP switch definition) |
| Maximum output power           | 32W   |
| Nominal output power           | 13...32W  |
| Output ripple current (100 Hz) | <5%   |
| Flicker                        | Comply with IEEE Std 1789-2015                    |
| CIE SVM                        | ≤0.4  |
| IEC-Pst                        | ≤1  |
| Output current tolerance       | ±5%   |
| Temperature tolerance          | ±10%  |
| Starting time                  | <0.5S   |

### Safety

|                        |                         |
|------------------------|-------------------------|
| Withstanding Voltage   | I/P-O/P: 3.75kV&5mA&60S |
| Surge capability (L-N) | 2kV                     |
| Insulation Resistance  | I/P-O/P: >100MΩ@500VDC  |
| Guarantee              | 5 years <sup>4)</sup>   |

1) @800mA 230Vac

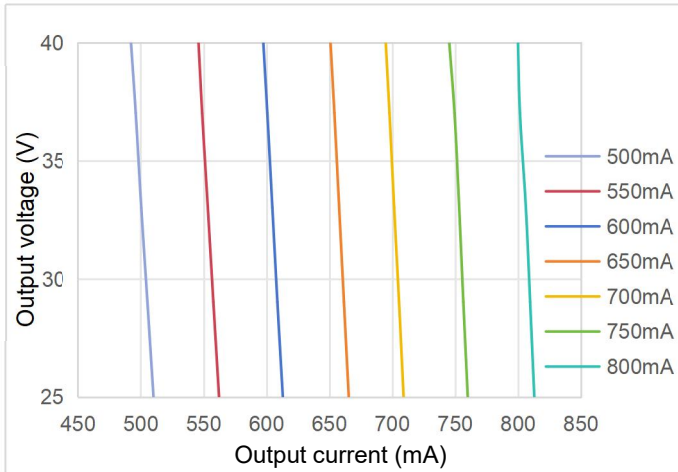
2) t =200μs

3) Please refer to the operating window for the relationship between the output voltage and current

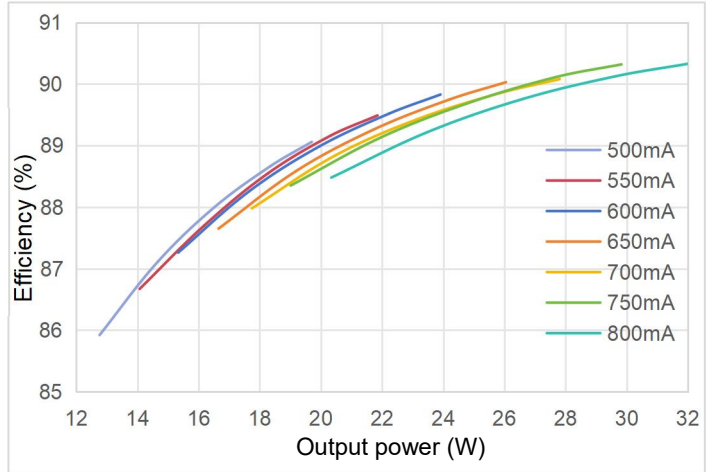
4) 5 years@Tc≤80℃

## Characteristic diagram

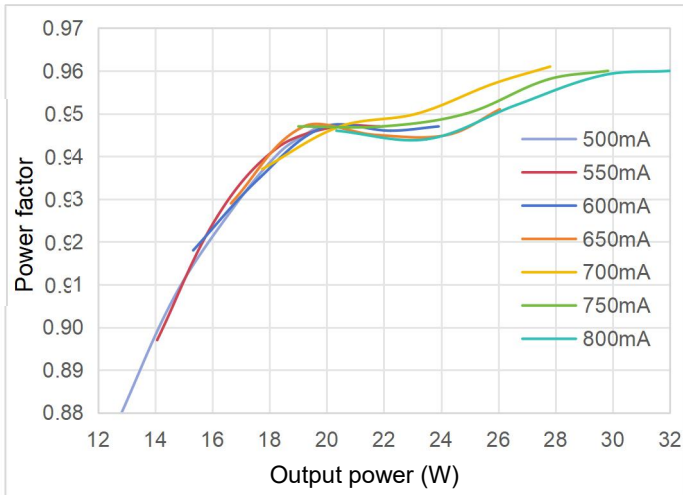
Operating Window



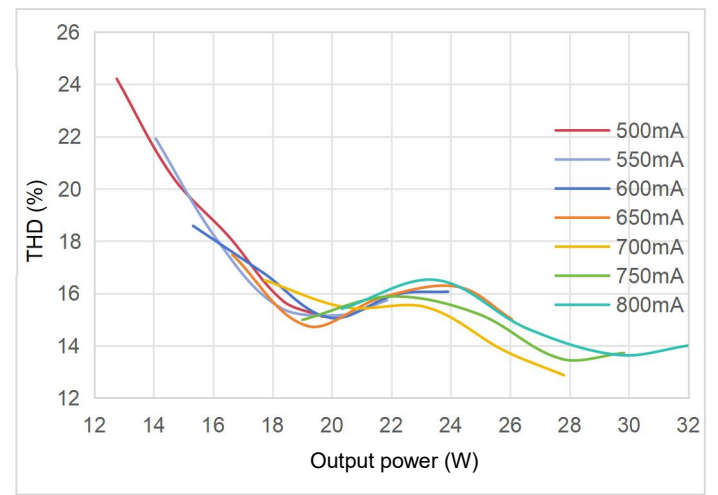
Typical Efficiency vs Load



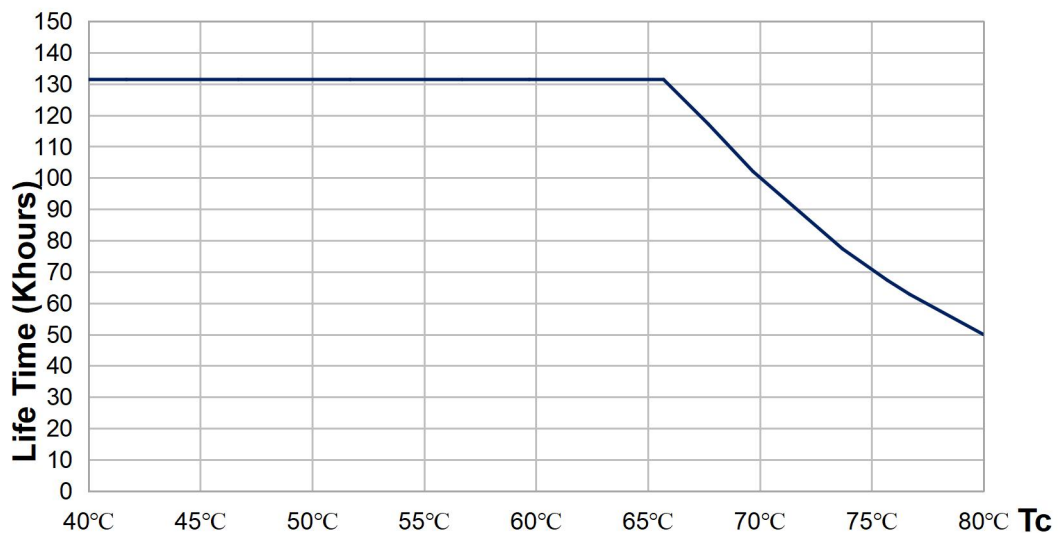
Typical Power Factor vs Load



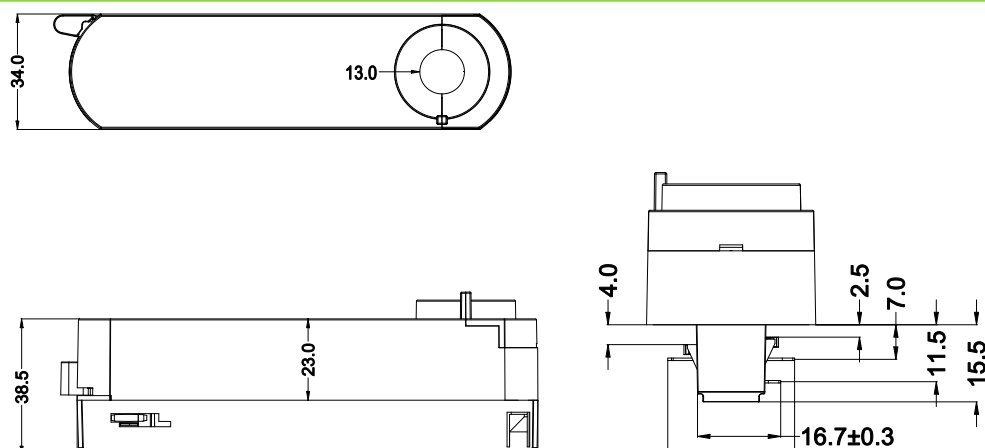
Typical THD vs Load



## Lifespan



## Dimensions



|                                      |                             |
|--------------------------------------|-----------------------------|
| Product weight                       | 94.5 g                      |
| Cable cross-section, output side     | 0.5 ... 1.5 mm <sup>2</sup> |
| Wire preparation length, output side | 7 ... 8mm                   |
| Length                               | 130.2mm                     |
| Width                                | 34.0mm                      |
| Height                               | 38.5mm                      |

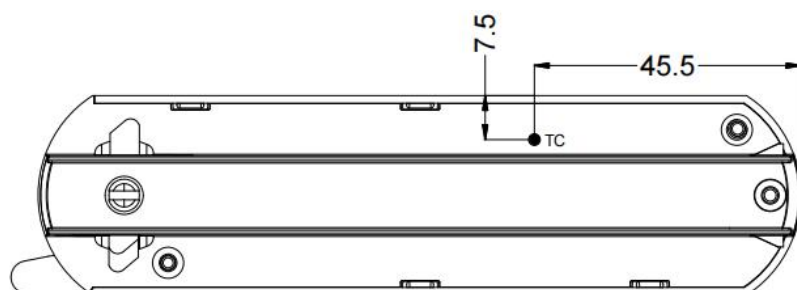
### Colors & materials

|                 |                    |
|-----------------|--------------------|
| Casing material | PC                 |
| Casing color    | White, black, gray |

### Temperature & operating conditions

|                                      |   |
|--------------------------------------|---|
| Ambient temperature range            | -20 ... +40°C                                   |
| Maximum temperature at tc test point | 80°C  |
| Temperature range at storage         | -30 ... +80°C (6 months in Class I environment) |
| Humidity range at storage            | 20-95%RH (no condensation)                      |
| Humidity during operation            | 20-90%RH  |
| RoHS                                 | RoHS 2.0 (EU) 2015/863                          |

## Tc test point



Note: The picture is a front view, and the Tc point is on the front of the product.

## Product Terminal

| Input |                       | Output |   |
|-------|-----------------------|--------|---|
| AC-L  | AC live wire input    | LED+   | Positive electrode output of LED driver |
| AC-N  | AC neutral wire input | LED-   | Negative electrode output of LED driver |

## DIP switch Terminal

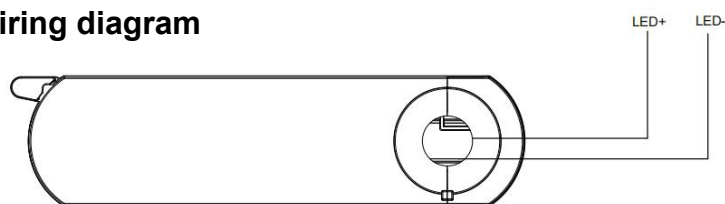
| Output current | Output voltage application | DIP switch 1 | DIP switch 2 | DIP switch 3 |
|----------------|----------------------------|--------------|--------------|--------------|
| 500mA          | 25-40Vdc                   | -            | -            | -            |
| 550mA          | 25-40Vdc                   | ON           | -            | -            |
| 600mA          | 25-40Vdc                   | -            | ON           | -            |
| 650mA          | 25-40Vdc                   | ON           | ON           | -            |
| 700mA          | 25-40Vdc                   | -            | -            | ON           |
| 750mA          | 25-40Vdc                   | ON           | -            | ON           |
| *800mA         | 25-40Vdc                   | -            | ON           | ON           |

Note: "-": shift OFF. "\*": default current. DIP when power on is NOT allowed. Please disconnect the AC power before DIP.

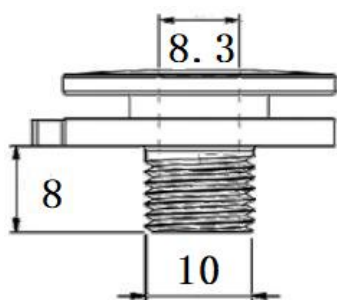
## Diagram of a 3-Wire, 2-Circuit Track



## Wiring diagram



## Screw thread



| Specification | Color |
|---------------|-------|
| M10*8mm       | Black |
|               | White |
|               | Grey  |

## Capabilities

|  |   |
|--|---|
| Dimmable                               | -   |
| Overheating protection                 | When the temperature on the front side of U2 reaches 137 °C, the output current drops |
| Overload protection                    | -   |
| Short-circuit protection               | Automatic reversible  |
| No-load protection                     | <55V  |
| Suitable for fixtures with prot. class | II  |
| Control interface                      | -   |
| Output interface                       | 1 channel   |

## Programming

|                       |   |
|-----------------------|---|
| Programming device    | - |
| DALI control software | - |
| APP                   | - |

## Certificates & standards

|                    |  |
|--------------------|--|
| Approval marks     | ENEC, CB, CE, UKCA, CQC  |
| Standards          | IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493<br>IEC/EN 62384<br>GB/T 13961-2008, GB 7000.1-2015, GB 19510.1-2009,<br>GB 19510.14-2009 |
| EMC                | GB 17625.1-2022, GB/T 17743-2021<br>EN 55015, EN 61547, EN 61000-3-2,3<br>GB/T 17743-2021, GB 17625.1-2022                               |
| Type of protection | IP20   |

## Logistical Data

| Product             | Packaging unit<br>(Pieces/Unit) | Dimensions (L*W*H) | Volume                | Gross weight |
|---------------------|---------------------------------|--------------------|-----------------------|--------------|
| LF-GIT030YB0800H(S) | 64                              | 375mm*335mm*210mm  | 26.39 dm <sup>3</sup> | 6.95kg±5%    |

## Test equipment & condition

|                |   |
|----------------|---|
| Test Equipment | AC power source: CHROMA6530, digital power meter: CHROMA66205,<br>oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A,<br>spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc. |
|----------------|---|

If there are no special remarks, the above parameters are tested at the ambient temperature of 25 °C, humidity of 50%, maximum output load and input voltage of 230Vac/50Hz.

## Additional information

1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.
2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished.
3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.
4. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above.

## Transportation & storage

Suitable transportation means: vehicles, boats and aeroplanes.

In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

## Cautions

Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.

Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.

Man-made damage is beyond the scope of Lifud warranty service.

## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

Lifud Technology Co., Ltd. reserves the right to interpret any contents of this specification.