

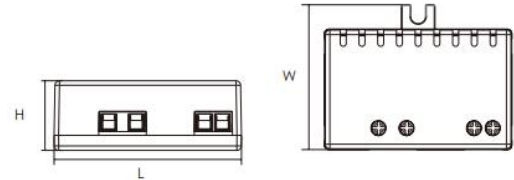


SWITCH TO BRIGHTER FUTURE

Product data sheet: MINI-6-xx Series

Features

- Super compact design for built-in use
- Analogue flicker-free
- Input and output terminal blocks on the same side
- Protections: opencircuit, shortcircuit, overload, overtemperature
- DC input compatible (176-250V DC)
- SELV equivalent
- Protection class II



Applications

- Office
- Shop
- Hospitality
- Public areas

Approbations & Certifications

TUV, CE, CB

Housing properties

- Housing material: plastic, white.
- Type of protection IP20

Electrical Specifications

| Type | | Unit | MINI-6-12 | MINI-6-24 |
|-------------------------------|------------------------------------|-----------------|---|-----------|
| INPUT | Nominal voltage | V | 220 – 240 | |
| | Nominal frequency | Hz | 50 / 60 | |
| | AC voltage range | V | 198 – 264 | |
| | DC voltage range | V | 176 - 250 | |
| | Nominal current | A | 0.08 | |
| | THD (Full load) | % | N/A | |
| | Power factor (Full load) | | 0.55C | |
| | Efficiency (Full load) | % | 75 | |
| | Turn on time | ms | ≤ 500 | |
| | No load | W | ≤ 0.5 | |
| | Protection class | | II | |
| | Inrush current(Cold start) | A pk | 10 (th = 100 μs) | |
| | Max.units per circuit breaker | | B10:70 B13:91 B16:112 B20:140 C10:140 C13:182 C16:224 C20:280 | |
| | OUTPUT | Nominal voltage | V | 12 |
| Maximum voltage(Open Circuit) | | Vdc | ≤ 12.9 | ≤ 25.9 |
| Output current range | | A | 0-0.5 | 0-0.25 |
| Voltage accuracy | | % | +/- 5 | |
| Ripple & Noise | | mV | ≤ 1500 | |
| Pst LM | | | ≤ 1 | |
| SVM | | | ≤ 0.4 | |
| Nominal power range | | W | 0– 6 | |
| Maximum power | | W | 6 | |
| Galvanic isolation | | | SELV | |
| ENVIRONMENT | Ambient temperature range ta | °C | -20 ...+50 | |
| | Maximum case temperature tc | °C | 80 | |
| | Max. Case temp. In fault condition | °C | 110 | |
| | Storage temperature range | °C | -20 ...+70 | |
| | Relative humidity | % | 5 ... 85 (Not condensing) | |
| | Surge transient protection | kV | 0.5 1 (L/N LN/PE acc to. EN 61547 Clause 5.7) | |
| | Environmental rating | | Indoor | |
| | IP rating | | IP 20 | |
| | Mains switching cycles | | > 100,000 | |
| | Expected lifetime | h | 50,000 (0.2% / 1'000 h failure rate) | |

*All parameters NOT specially mentioned are measured at 230VAC input ,rated current and 25°C of ambient temperature

Protections

Over temperature

Yes

Over load

Yes

No load

Yes

Short-circuit

Yes

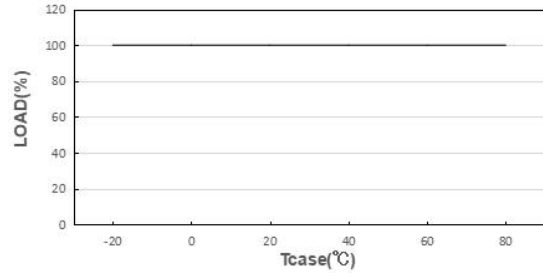
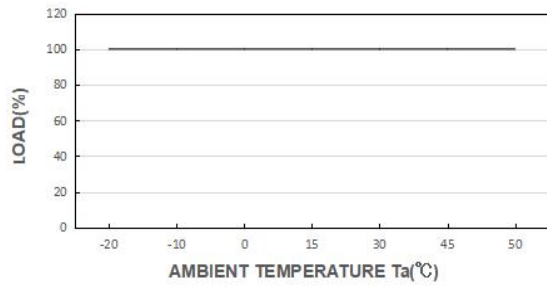
Input overvoltage

Maximum allowed input voltage 264V AC

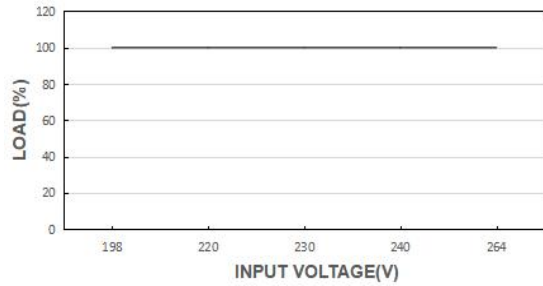
Output overvoltage

Yes

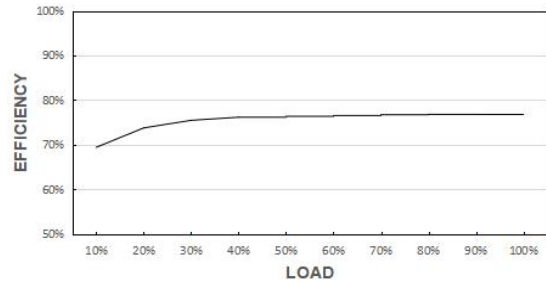
OUTPUT LOAD vs TEMPERATURE



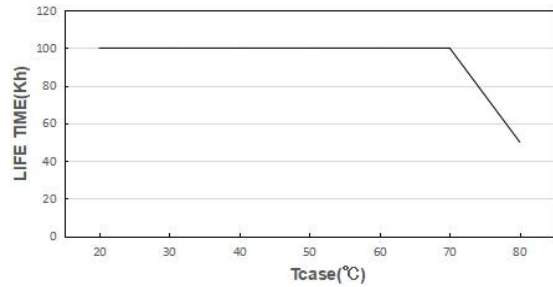
STATIC CHARACTERISTIC



EFFICIENCY vs LOAD



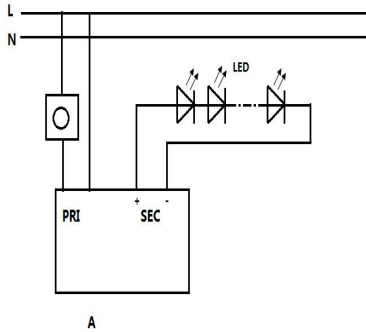
LIFE TIME



*The graph is for reference only, and the detailed values refer to the parameter table

Wiring Diagram

| | |
|-----------------------------|---------------------|
| Terminal: | Screws |
| Max. cable length - system: | 2 m |
| Dimensions(LxWxH): | 50 x 38.5 x 18.5 mm |
| Mounting hole spacing : | 38.5 mm |
| Weight: | 30 ± 5g |



PRI

| | |
|----------------------|-----------|
| Cable cross-section: | 0.75-2.5□ |
| Stripping: | 6mm |

SEC

| | |
|----------------------|----------|
| Cable cross-section: | 0.5-1.5□ |
| Stripping: | 6mm |

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

Remarks

-Touch current: lower than 0.7 mA, according to EN 60598-1 annex. G and EN 61347-1 annex A

Standards

EN 61347-1
EN 61347-2-13
EN 62384
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 60598-1
IEE1789
(EU) 2019/2020

Manufacturer's address:

No.4,Tongfu Road,Tong'an Industrial Center,Tong'an District,Xiamen,Fujian,China

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