

Features



- Super compact design for built-in use
- Flicker-free
- DALI-2 certified (incl. Parts 251, 252, 253)
- Configurable constant current output via dip-switch
- Switch-Dim function
- Corridor function application
- Dimming range 0.1...100%
- · Primary and secondary sides come with leads
- Protections: opencircuit, shortcircuit, overload, overtemperature
- DC input compatible (176-250VDC)
- SELV equivalent
- Suitable for protection class I & II luminaires



| Selection Guide | | | | | | | | | |
|-----------------|---------------------------|---------------------------|------------------------|-------------------------|-----------------------|---------------------------|--------------------------|---------------------------|--------------------------------|
| Model No. | Nominal Voltage (V) | Nominal Current (A) | Power Factor (λ) | THD Full load (%) | Max. Output (W) | Output Current (mA) | Output Voltage (V) | No Load Voltage (V) | Efficiency Full Load (%) |
| MIM-12D | 220-240 | 0.08 | 0.95 | 15 | 4.2 | 100 | 2-42 | 50 | 80 |
| | | | | | 6.3 | 150 | 2-42 | | |
| | | | | | 8.4 | 200 | 2-42 | | |
| | | | | | 10.5 | 250 | 2-42 | | |
| | | | | | 12.6 | 300 | 2-42 | | |
| | | | | | 12.6 | 350 | 2-36 | | |
| | | | | | 12.6 | 450 | 2-28 | | |
| | | | | | 12.6 | 500 | 2-25 | | |
| | | | | | 12.6 | 700 | 2-18 | | |

| Input Parameters | | | | |
|--|-----------|--------|---------|--------|
| Parameter | Condition | Min. | Тур. | Max. |
| Input Valtage Pange | AC Input | 198VAC | | 264VAC |
| Input Voltage Range | DC Input | 176VDC | | 250VDC |
| Rated Input Frequency | AC Input | | 50/60Hz | |
| No-load Power Consumption | | | | 0.5W |
| Standby Power Consumption | | | | 0.5W |
| Inrush Current Cold Start@230V 10A/100us | | | | |

Max.units Per Circuit Breaker

| Circuit Breaker | Circuit Breaker Current | | | |
|-----------------|-------------------------|-----|-----|-----|
| Тур. | 10A | 13A | 16A | 20A |
| В | 70 | 91 | 112 | 140 |
| С | 125 | 162 | 200 | 250 |

DALI Dimming LED Driver

MIM-12D



| Output Parameters | | | | |
|--------------------------------|---|----------------------|-----------|------|
| Parameter | Condition | Min. | Тур. | Max. |
| Output Accuracy | Full Load@230V | | ±5% | |
| Ripple & Noise | Low Frequency < 120Hz, Full Load@230VAC | | | 10% |
| Pst LM | | | | 1 |
| SVM | | | | 0.4 |
| Galvanic Isolation | SEI | _V | | |
| Short-Circuit Protection (SCP) | The system restarts after the a | onormal condition is | s removed | |
| Over-Voltage Protection (OVP) | The system restarts after the abnormal condition is removed | | | |
| Over-Current Protection (OCP) | The system restarts after the abnormal condition is removed | | | |

| General Parameters | | | |
|--|---|------------------------------|--|
| Parameter | Condition | Value | |
| Ambient Temperature Range t _a | | -20+60°C | |
| Maximum Case Temperature t _c | Measured on t₀ point indicated of the product label | 90 | |
| Max.Case Temp.In Fault Condition | | 110℃ | |
| Storage Temperature Range | | -20+70℃ | |
| Relative Humidity | Non Condensing | 585% | |
| Withstand Voltage | I/P-O/P | 3.75kVAC, I leakage<5mA, 60s | |
| Surge Transient Protection | L-N, L/N-PE | 1kV, 2kV | |
| Environmental Rating | | Indoor | |
| IP Rating | | IP20 | |
| Mains Switching Cycles | | > 100,000 | |
| Expected Lifetime | t _{cmax} =90, 0.2%/1000h failure rate | 50,000h | |

| Dimming Parameters | | |
|--------------------|---------------------|--|
| Dimmable | Yes | |
| Dimming control | DALI-2/Switch-Dim | |
| Dimming range | 0.1-100% | |
| Dimming method | PWM+Amplitude | |
| PWM frequency | 400Hz-25kHz@0.1-10% | |

| Physical Parameters | | |
|-----------------------|------------|--|
| Housing Material | PC | |
| Type of connection | Cable | |
| Dimensions (LxWxH) | 65x43x24mm | |
| Mounting hole spacing | 59mm | |
| Weight | 89g±5g | |

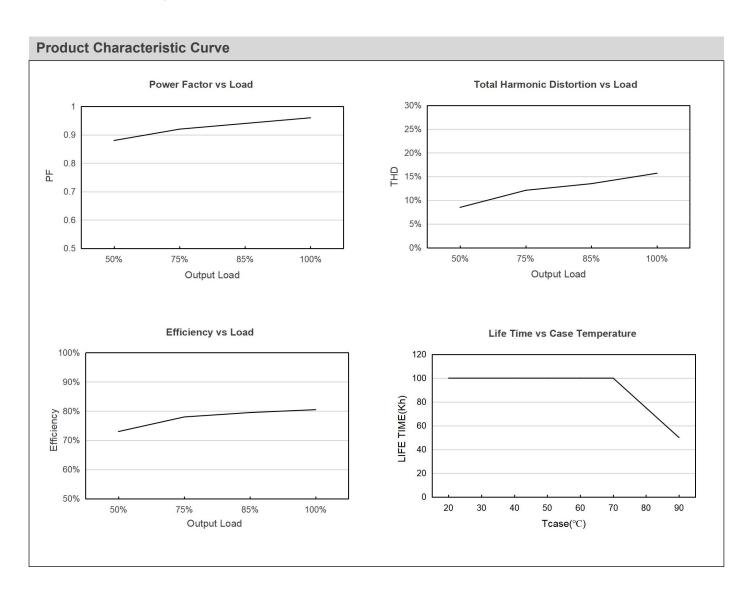
DALI Dimming LED Driver



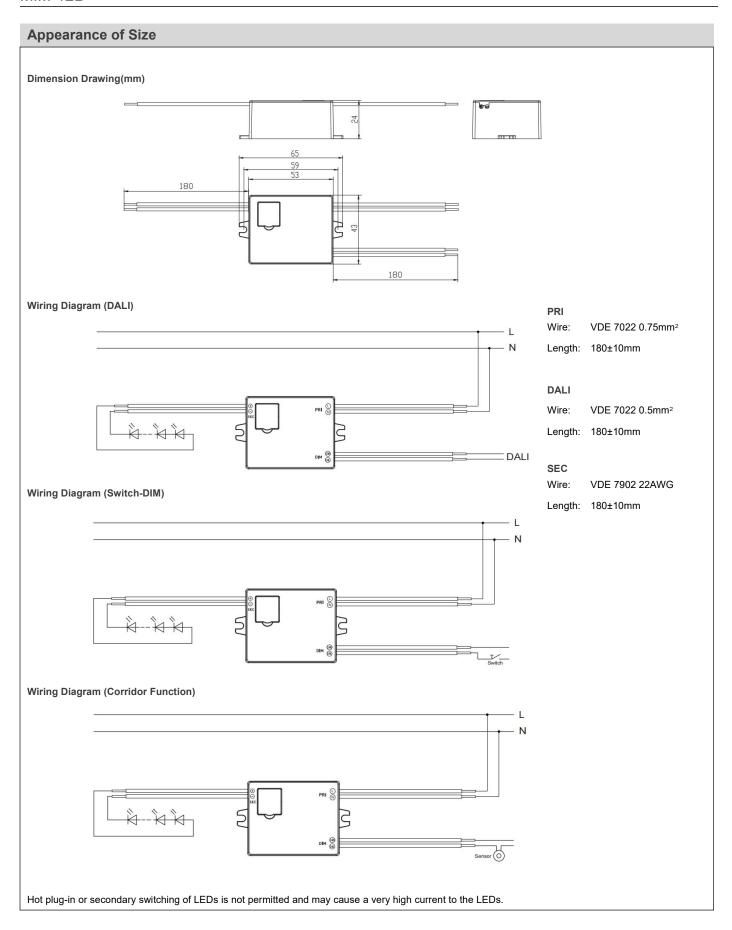


| Standards | |
|------------------|--|
| Safety Standards | EN 61347-1, EN 61347-2-13 |
| Performance | EN 62384 |
| EMC Standards | EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547 |
| DALI Standards | EN 62386-101, EN 62386-102, EN 62386-207, EN 62386-251, EN 62386-252, EN 62386-253 |

^{*}ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.







DALI Dimming LED Driver

MIM-12D



Functions

ΠΔΙ Ι

In this operating mode the light level of the device is controlled via its DALI address.

Switch-DIM

Alternatively the device can be controlled using switch-inputs for mains voltage, the dim level is saved at power-down and restored at power-up.

- -Short press(<1S): switches LED driver ON and OFF
- -Long press: LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction.

Synchronization

In installations with LED drivers with different dimming levels or opposite dimming directions, all LED drivers can be sychronzied to 50% dimming level by a 15S push, switch off the light by short press one time, then long press. Up to 25 LED drivers can be controlled via direct switch-button use. The number of switch-button is limited by the sum of the overall cable length between switch(es) and the connected LED drivers, witch may not exceed 20m.

Corridor Function

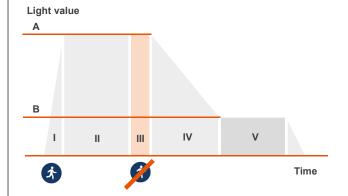
Activating the Corridor Function

- -By supply voltage: Activate the Corridor Function by permanently applying the supply voltage (220-240V, 50/60Hz) to the DALI input of the driver for at least 5 minutes, the light up 100%(under the default setting).
- -By sensor: Activate the Corridor Function by keeping the movement in the effective sensing area for at least 5 minutes, the light up 100%(under the default setting).

Changing from the Corridor Function to the Switch-DIM function

-By briefly pressing a push-button 5 times (at the DALI input, 220-240V, 50/Hz) within 3 seconds.

Corridor Function Phasing



Factory-set parameters:

- A: Presence value=100%
- B: Absence value=10%
- I: Fade-in time=1s
- II: By sensor setting
- III: Run-on time=2min
- IV: Fade time=30s
- V: Unlimited

Notice

The compatibility with other devices must be tested in advance to the installation.

DALI application and switch-control application can not apply to the system at the same time.