



Features

- Support DALI-2 dimming mode
- Support advanced functions such as CLO
- The output current of the driver can be programming through the DALI interface
- High PF, high efficiency, low THD
- Dimming range 1%~100%, output current accuracy 1%
- Soft dimming and flicker-free at any brightness, meets the new requirements of ErP certification
- Using HPC patented technology, at any dimming level, the brightness of the lights is the same
- Low smoke halogen-free flame retardant wires are optional for input and output
- Suitable for working at -30-60°C
- Aluminum metal housing design
- Power input on stand-by < 0.5 W, compatible with ERP.
- LED hot-plug in protection function.
- Compliance with CE, DALI-2, EL certifications.
- Nominal life-time up to 50,000 h

Interfaces

- DALI-2(DALI-2 DT6)

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Constant light output function (CLO)
- Programming via DALI wires
- Protective features (short-circuit, overload, no-load, hot plug-in protection)

Typical applications

- LED Industrial lighting
- LED rail-transit lighting
- LED Subway station lighting



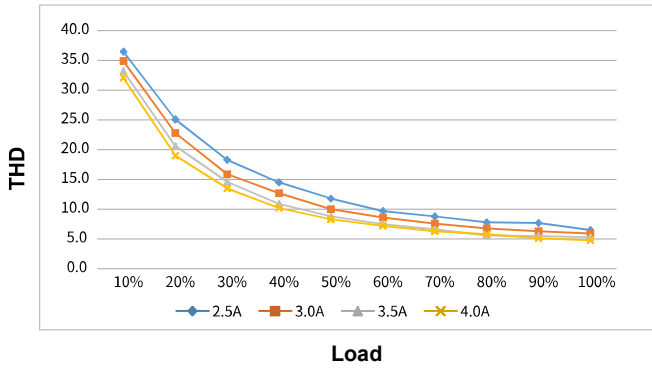
- DALI-2 Constant Current LED Driver
- Output Voltage: 12-42V
- Output Current: 2.5 - 4.0A
- Flicker Free: O/P Ripple current < 5% (LF)
- Output Wattage : 152W Max
- Aluminum Extrusion
- Suitable For wet Locations
- Application:
 - LED Industrial Lighting.
 - LED rail-transit Lighting.
 - Subway station Lighting.

General Specifications

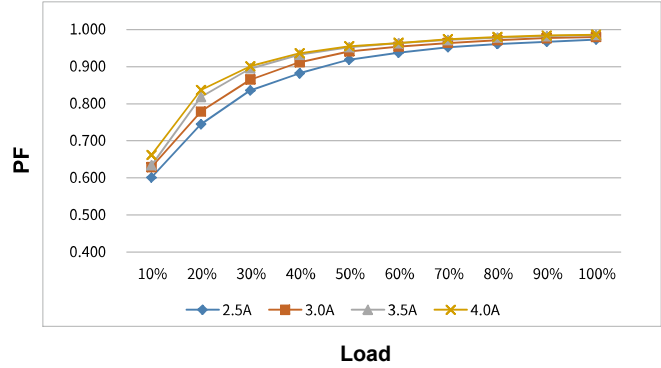
| | |
|-------------------------------------|--|
| Rated Input Voltage | 200-240Vac,50/60Hz |
| Operating Input Voltage Range | 180-264Vac,50/60Hz |
| Input Current | <0.92 @ 230Vac |
| Input Power | 171W (Max) |
| Power Factor | >0.95 @ 230Vac/Full Load |
| THD | <10% @ 230Vac/Full Load |
| Efficiency (Typical) | 89% |
| Driver Type | Constant Current DALI-2 |
| Output Current | Programable 1.5-2.2A ±3% |
| Output Voltage Range | 12-42Vdc |
| Output Power | 152W |
| Number of Output Channels | 1 Channel |
| Output Type | Class I |
| Dimming Controller Type | DALI-2 |
| Ambient Operating Temperature Range | -20°C to 60°C |
| Max. Case Temperature | 90°C |
| Input Surge Protection | 4KV/6KV |
| Protections | Input Over Current : Non Resettable (Fuse) Output Short Circuit : Auto Recovery (HICCUP Mode) Output Open Circuit : Auto Recovery (HICCUP Mode) Output Overload : Auto Recovery (HICCUP Mode) Over Temperature : Auto Recovery (HICCUP Mode) |
| Safety Standards | EN61347-1/2-13, GB19510.1/14, EN62384, IEEEE1789 |
| Dali Standards | IEC62386-101, 102, 207 |
| Withstand Voltage | I/P-O/P:3750Vac, I/P-FG:1750Vac, O/P-FG:500Vac, I/P-DALI:1500Vac, O/P-DALI:1500Vac |
| Leakage Current | <0.7mA @ 240Vac |
| Isolation resistance | I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH |
| Life | 50,000 Hours @ 80°C |
| Approvals / Class | SELV Equivalent |
| IP Rating | IP 67 |
| Warranty | 5 Years |
| Weight | 0.727Kg |

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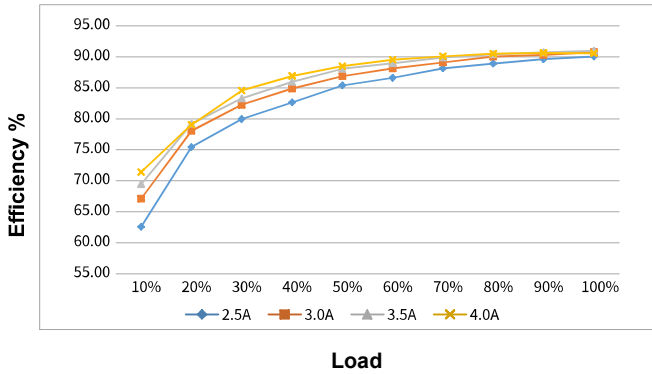
THD vs Load



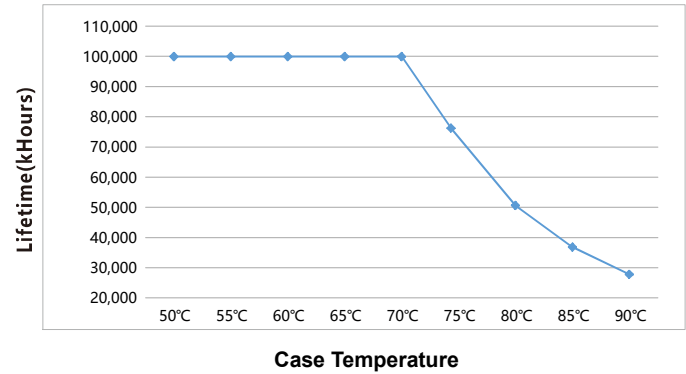
Power Factor vs Load



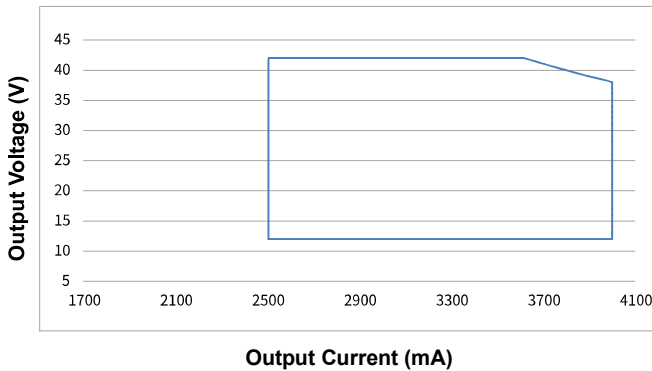
Efficiency vs Load



Life Time vs Case Temperature



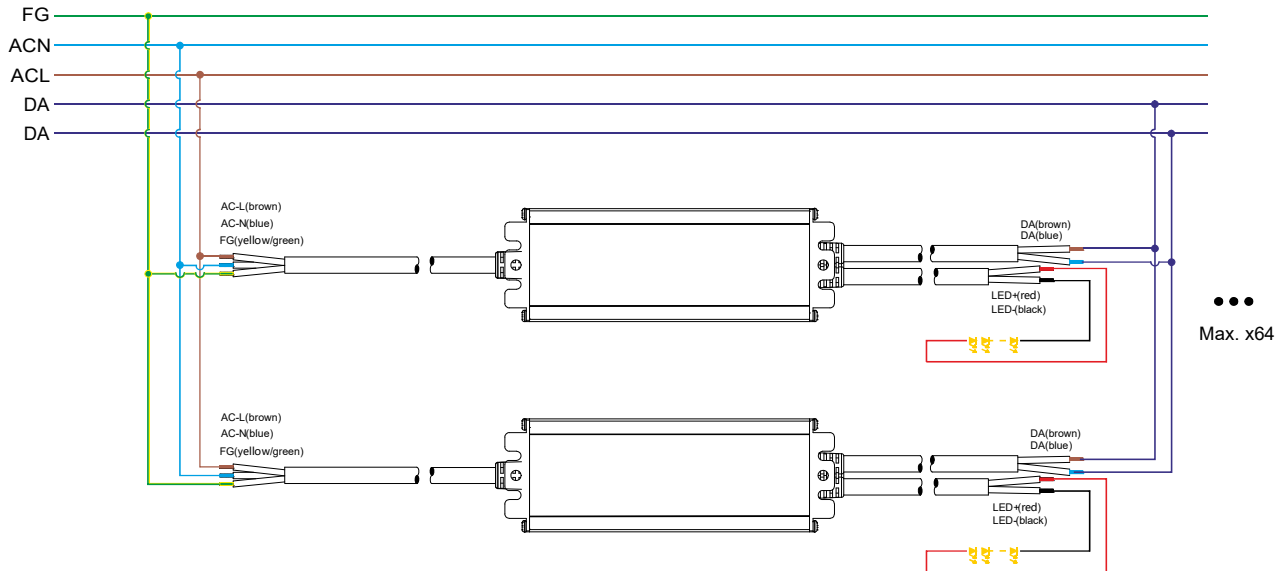
Operating Window



- Output voltage x output current = output power
- The minimum current step is 1mA, the minimum voltage step is 1V, the voltage range is 12-42V, the current range is 2500-4000mA, and the voltage and current can be set arbitrarily under the premise that the output power does not exceed 152W.

DALI dimming application

Wiring diagram



Activating DALI control mode

- After installation according to the wiring diagram of DALI control application, the driver will automatically switch to the DALI control mode after receiving any DALI command.

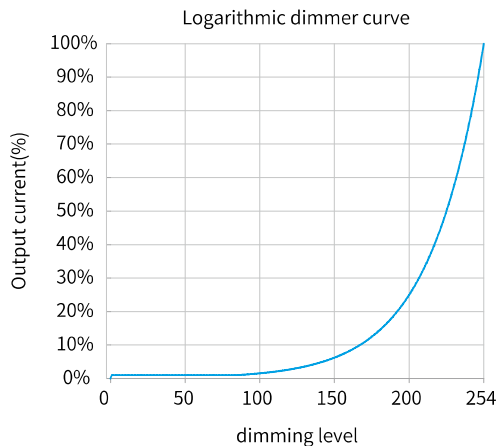
Remarks:

- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at $2 \times 1.5\text{mm}^2$.
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.

Wiring distance vs cable size

| Cable size | Distance |
|---------------------------------|-----------|
| $2 \times 0.50\text{mm}^2$ | max. 100m |
| $2 \times 0.75\text{mm}^2$ | max. 150m |
| $2 \times 1.00\text{mm}^2$ | max. 200m |
| $\geq 2 \times 1.50\text{mm}^2$ | max. 300m |

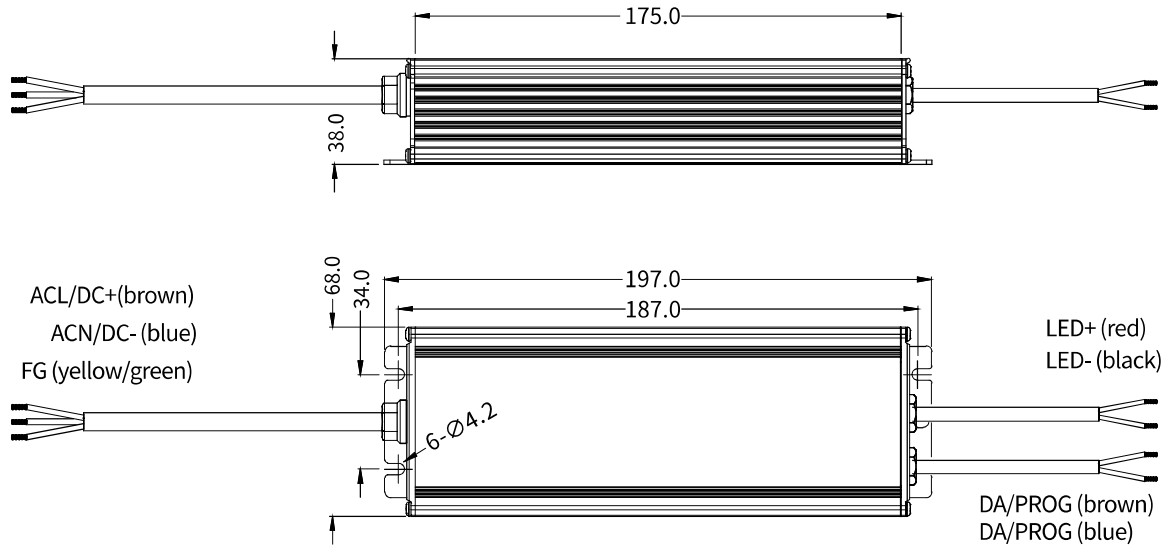
Dimming curve



Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

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Mechanical Data :

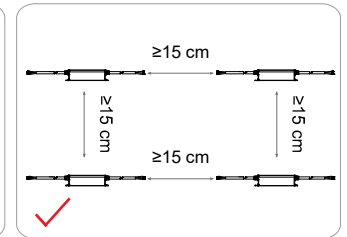
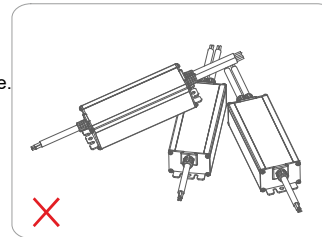


Note : All Dimensions are in mm.

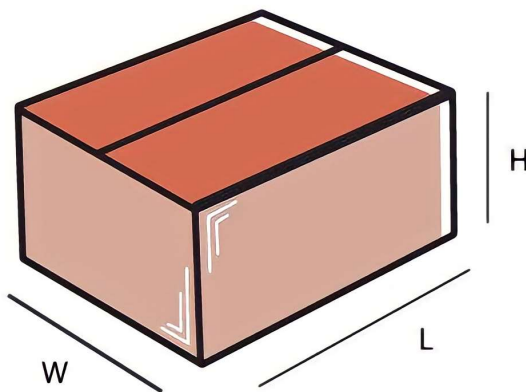
Tolerance=±0.5mm

Installation Instruction

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the drive shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than 40°C
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).



Packaging



Master carton

| OUTER DIMENSION | | |
|-----------------|--------------|----------|
| L | W | H |
| 500mm | 310mm | 230mm |
| Net Weight | Gross Weight | QUANTITY |
| 8.70kg | 10.00 kg | 9 pc. |

Installation Instructions:

Connect Wires as per details given on the Driver Screen. Keep proper ventilation around the LED Driver and do not stack any object on it. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source. Do not exceed the declared Hot spot temperature(Tc max) under any circumstances.

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