



PRODUCT FEATURES

- Universal input voltage: 90-305Vac;
- Constant current design; Efficiency up to 95%;
- Isolated dimming: DALI-2 dimming;
- Dim-to-off; No glimmer after Dim-to-off;
- Flicker free: Total Output Current Ripple 5%;
- Surge protection: 4KV line-line, 6KV line-earth;
- Multiple protection: SCP, OVP, OTP;
- IP65 design for indoor and outdoor applications;
- 5 years warranty.

APPLICATION

- Suitable for industrial lighting.

DESCRIPTION

G6-200W DALI series is specially designed for industrial lighting applications. It is constant current LED driver that operates from 90-305Vac with DALI-2 dimming function. This round integrated structure enables it to have a better heat dissipation cooler, significantly improving reliability and extending product life. To ensure trouble free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

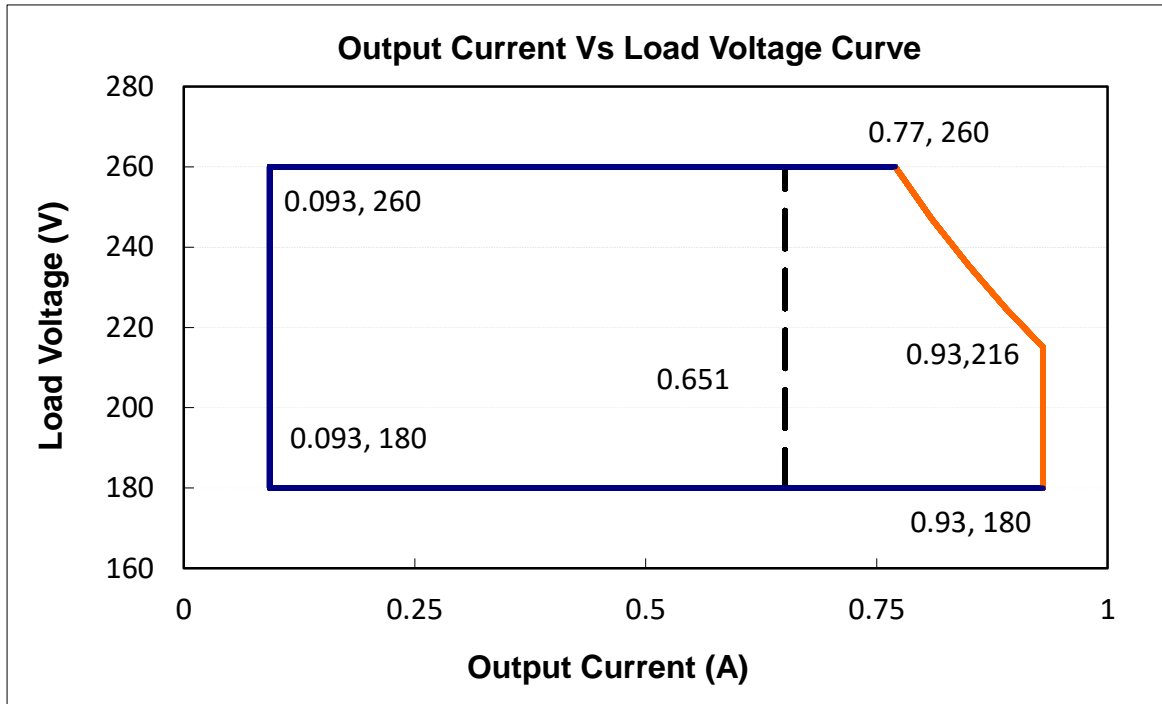
MODELS

| Model Number | Max Output Power (W) | Output Voltage Range (Vdc) | Output Current Adjustable Range (A) | Full Power Current Adjustable Range (A) [1] | Default Output Specification | Typical Efficiency [2] | Power Factor | |
|--------------|----------------------|----------------------------|-------------------------------------|---|------------------------------|------------------------|--------------|--------|
| | | | | | | | 120Vac | 230Vac |
| G6-200D260H | 200 | 180-260 | 0.651-0.930 | 0.770-0.930 | 180-215V/0.930A | 95% | 0.99 | 0.96 |

Notes:

1. Output current adjustable range with constant power at max output power;
2. All specifications are measured at 25°C ambient temperature, input voltage 230Vac, and the typical value tested by full load, if no specific note.

OPERATING AREA I-V



Notes: Adjustable range of resistance is suitable for the right area of the dotted line.

The drivers are not allowed to work in over-load condition, otherwise warranty will expire.

INPUT SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Notes |
|----------------------------------|-------|------------|---------------------|---------------------------|
| Input Voltage | 90Vac | 100-277Vac | 305Vac | |
| Input Frequency | 47Hz | 50/60 | 63Hz | |
| Leakage Current | - | - | 0.75mA | 277Vac/60Hz |
| Input AC Current | - | - | 3.0A | 100-277Vac & full load |
| Inrush Current(I ² T) | - | - | 1.5A ² S | 230Vac, full load |
| Power Factor | 0.98 | 0.99 | - | 120Vac, full load |
| | 0.95 | 0.96 | - | 230Vac, full load |
| | 0.91 | 0.92 | - | 277Vac, full load |
| THD | - | 5% | 10% | 120-240Vac, 80%-100% load |
| | - | 7% | 15% | 277Vac, 80%-100% load |

OUTPUT SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Notes |
|-------------------------------------|-------|------|-------|--|
| Output Current Tolerance | -8% | - | +8% | |
| Output Current Range (A) | 0.093 | - | 0.930 | |
| Total Output Current Ripple (pk-pk) | - | 5% | 10% | 20MHz BW, 100% Load& load is LED, ripple is different with difference LED load |
| Startup Overshoot Current | - | - | 10% | 100-277Vac & 100% Load, load is LED |
| No Load Output Voltage(V) | - | 290V | 320V | |
| Standby Power | | | 0.5W | Dim-to-off |
| Line Regulation | -1% | - | +1% | 25°C±10°C ambient temperature, input voltage changes from 100Vac to 277Vac |
| Load Regulation | -3% | - | +3% | 25°C±10°C ambient temperature, 230Vac input, load changes from 80% to 100%. |
| Turn-on Delay Time | - | - | 1.0S | 120Vac, 100% load |
| | - | - | 1.0S | 230Vac, 100% load |

GENERAL SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Notes |
|--|------------------------------|-----------|---------|---|
| Efficiency @120Vac | 91% | 93% | - | 25°C±10°C ambient temperature, 100% load, |
| Efficiency @230Vac | 93% | 95% | - | 25°C±10°C ambient temperature, 100% load, |
| Efficiency @277Vac | 93% | 95% | - | 25°C±10°C ambient temperature, 100% load, |
| Dielectric Strength | Input-PE | - | 1650Vac | 5mA/60S |
| | Output- PE | - | - | |
| Grounding Resistance | - | - | 0.1Ω | 25A/60S |
| Insulation Resistance | 10MΩ | - | - | Input-PE, Output-PE, 500Vdc/60S/25°C/70%RH |
| MTBF | - | 200000Hrs | - | 25°C±10°C ambient temperature, 230Vac,80% load (MIL-HDBK-217F) |
| Lifetime | - | 50000Hrs | - | 230Vac&100% load,75°C case temperature, refer to lifetime VS Tc curve for details |
| Operating Case Temperature for Safety Tc_s | -40°C | - | +90°C | |
| Operating Case Temperature for Warranty Tc_w | -40°C | - | +75°C | 5 years warranty Humidity: 10% to 95% RH |
| Storage Temperature | -40°C | - | +85°C | Humidity: 5% to 100% RH |
| Dimensions (D×H)mm | Φ130×64.6 | | | |
| Net Weight | 950±150g/PCS | | | |
| Package | L490*W370*H185mm; 12PCS/Ctn. | | | |

DIMMING

| Parameter | Min. | Typ. | Max. | Parameter |
|----------------------|---------|------|----------|------------------------------|
| High Voltage Level | 9.5V | 16V | 22.5V | |
| Lower Voltage Level | -6.5V | 0V | 6.5V | |
| Dimming Output Range | 10%Imax | - | 100%Imax | Imax=0.930A; Dim to off <10% |
| Sink Current | - | - | 2.0mA | |

SAFETY STANDARDS

| Safety Category | Country / Territory | Standards | Whether have Certification |
|-----------------|---------------------|---------------------------|----------------------------|
| CCC | China | GB19510.1, GB19510.14 | √ |
| CE | Europe | EN61347-1, EN61347-2-13 | √ |
| | | EN62493 | √ |
| | | EN62384 | √ |
| ENEC | | | |
| CB | CB Countries | IEC61347-1, IEC61347-2-13 | √ |
| BIS | India | IS 15885(PART 2/SEC 13) | |
| UL | USA | UL 8750 | |
| CUL | Canada | CSA C22.2 No.250.13 | |
| KC | South Korea | K61347-1, K61347-2-13 | |
| PSE | Japan | J61347-1, J61347-2-13 | |
| SAA | Australia | AS/NZS IEC 61347.2.13 | √ |
| | | AS/NZS 61347.1 | √ |

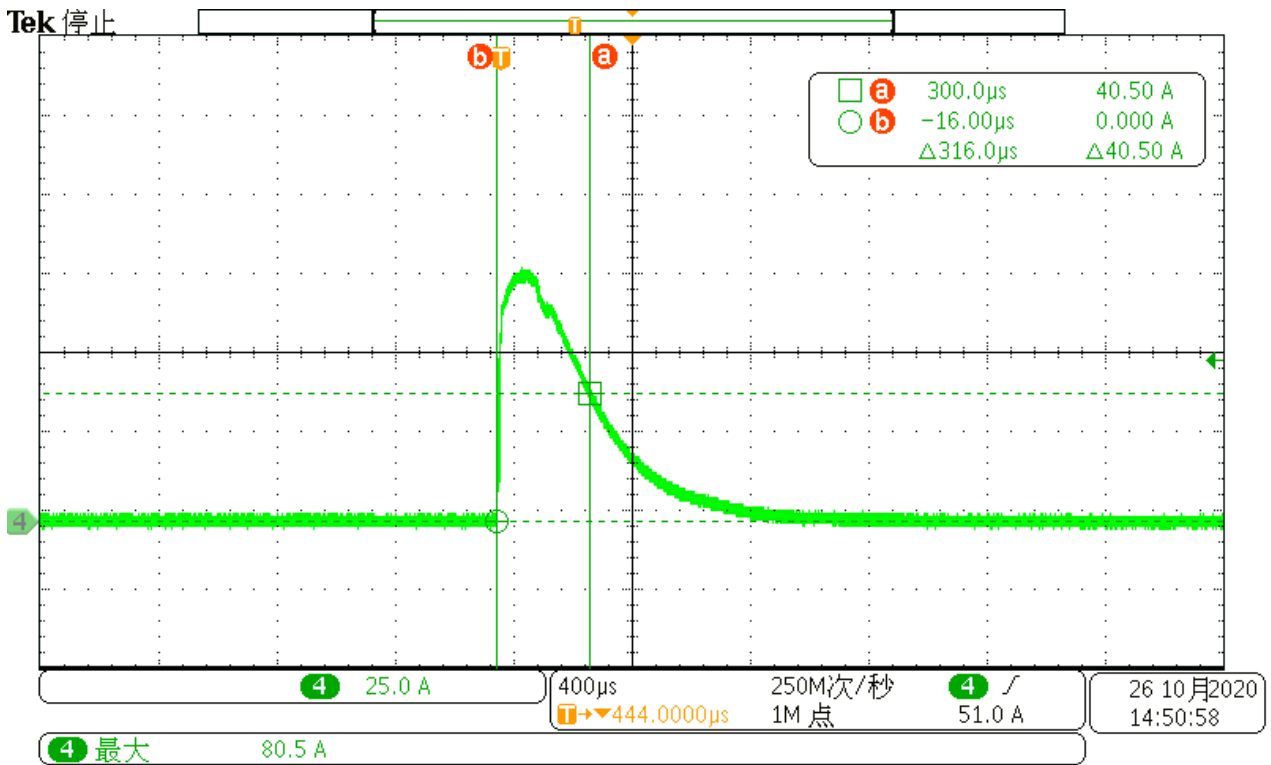
EMC COMPLIANCE

| EMC Category | Country / Territory | Standards | Whether have Certification |
|--------------|---------------------|----------------------------|----------------------------|
| CCC | China | GB/T 17743, GB 17625.1 | √ |
| CE | Europe | EN 55015 | √ |
| | | EN 61000-3-2, EN 61000-3-3 | √ |
| | | EN61000-4-2,3,4,5,6,11 | √ |
| | | EN 61547 | √ |
| KC | South Korea | K61547, K00015 | |
| PSE | Japan | J55015 | |
| FCC | USA | FCC part 15 | |

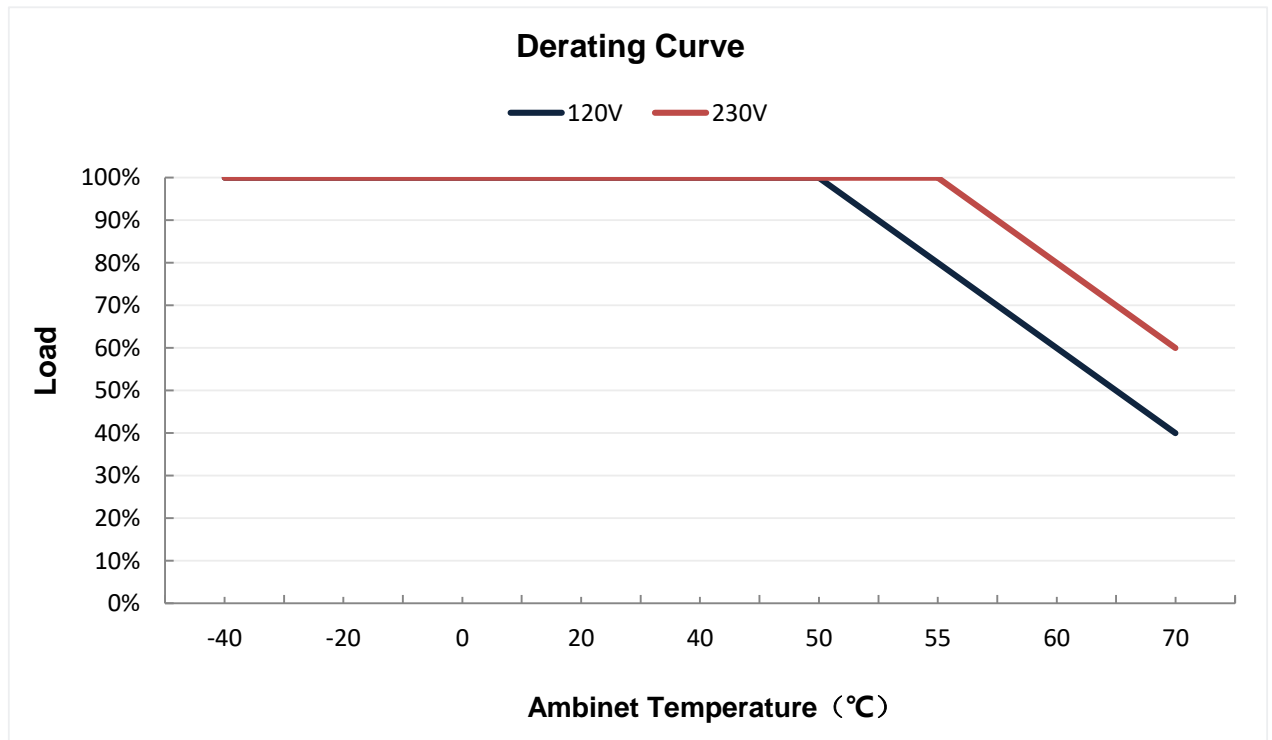
NOTE:

This LED driver meets the EMI specifications above, but EMI performance of a luminaire that contains it depends also on the other devices connected to the driver and on the fixture itself.

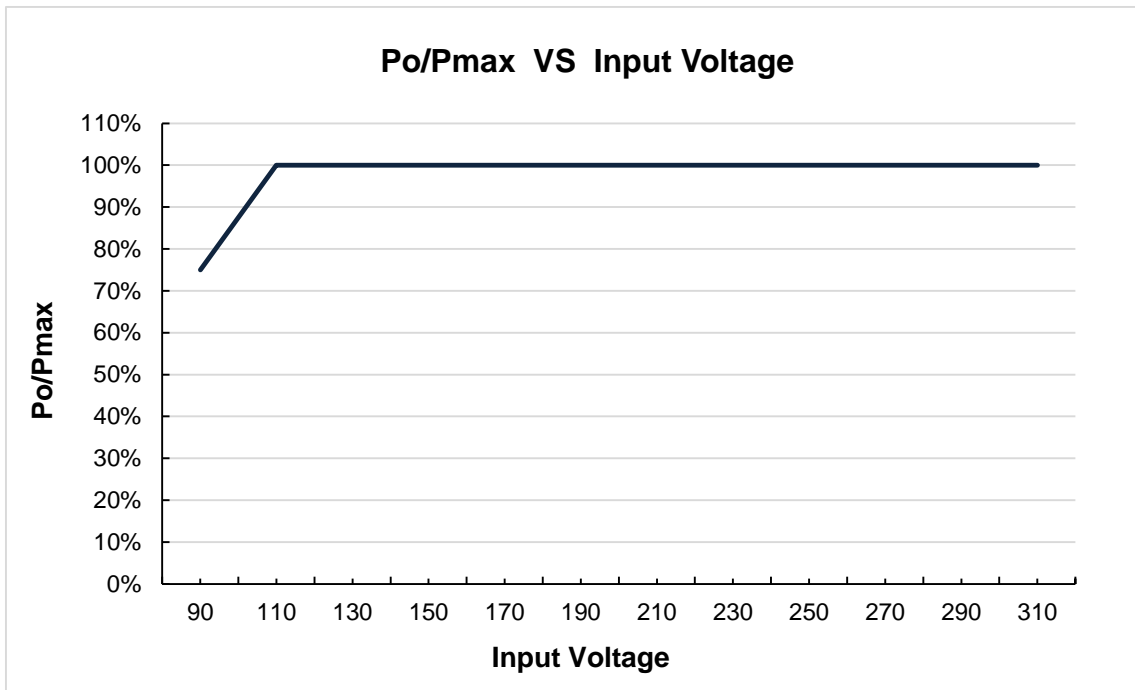
INRUSH CURRENT WAVEFORM



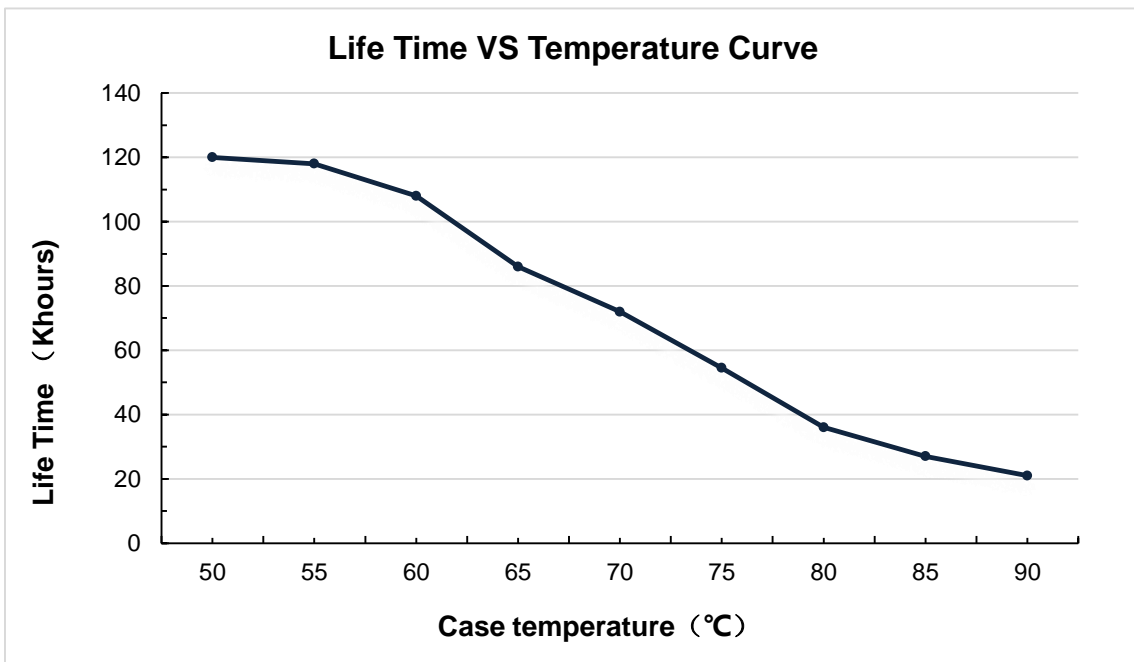
DERATING CURVE



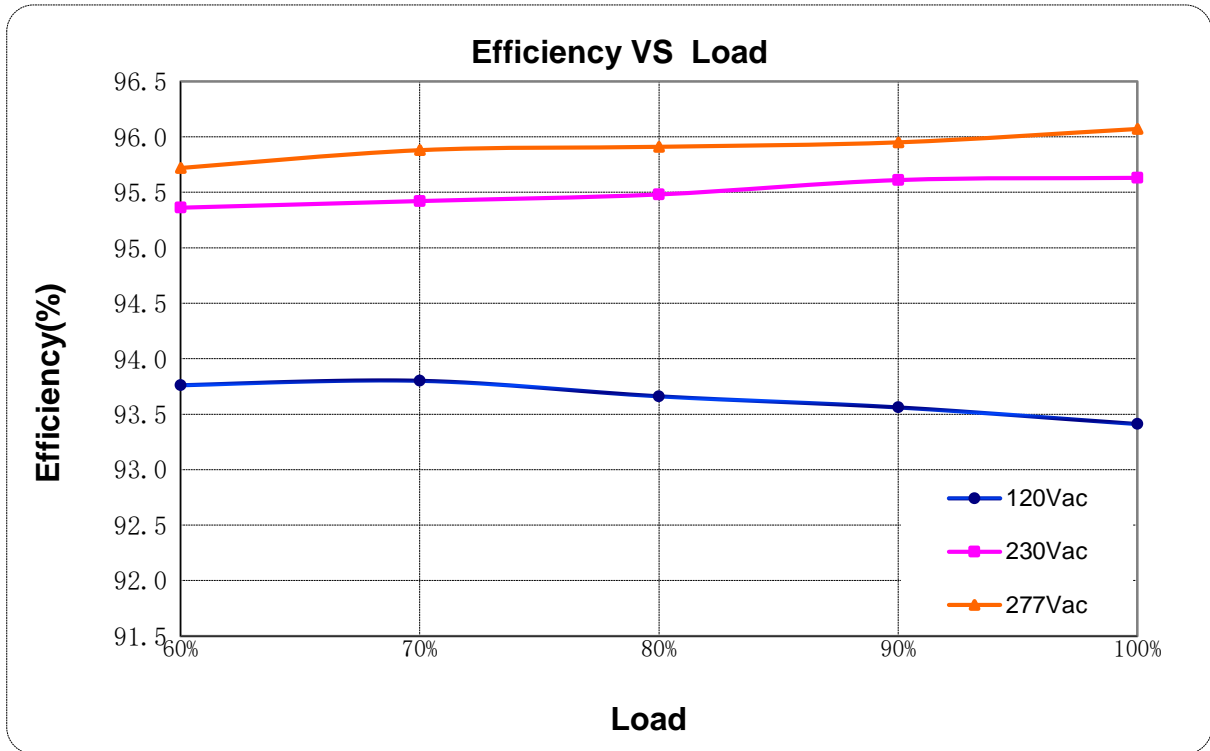
OUTPUT POWER VS INPUT VOLTAGE



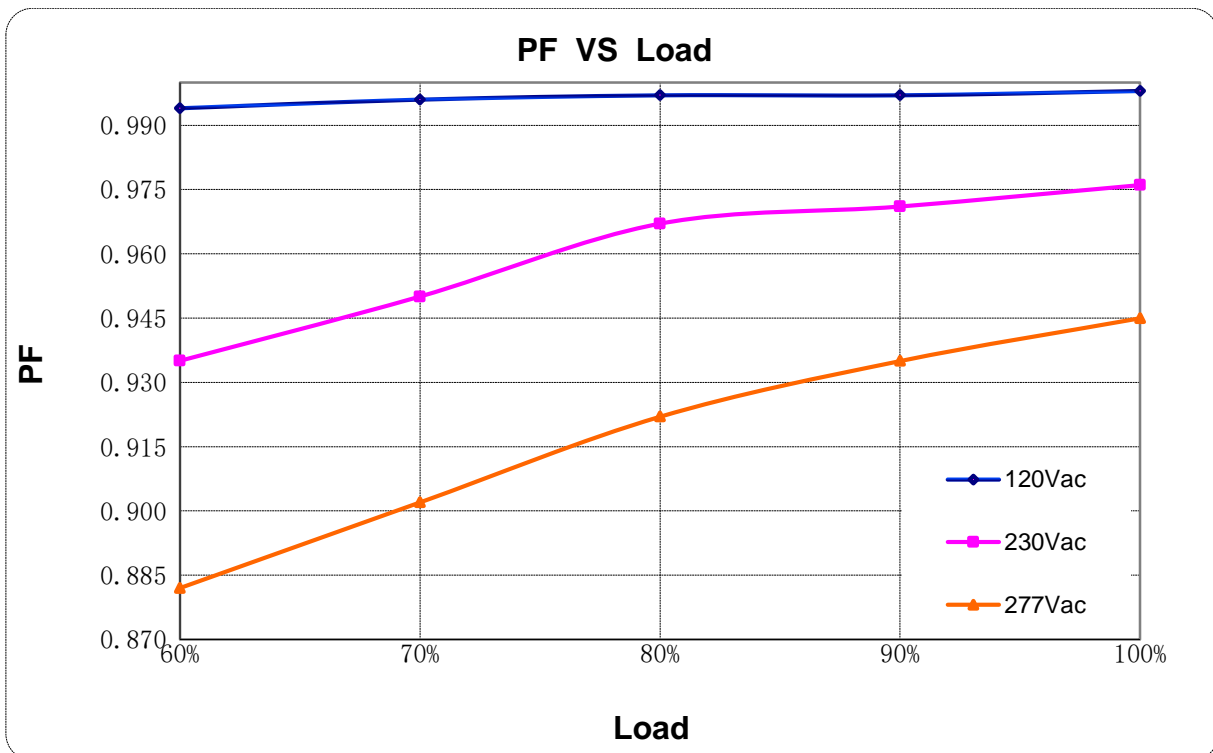
LIFETIME VS CASE TEMPERATURE



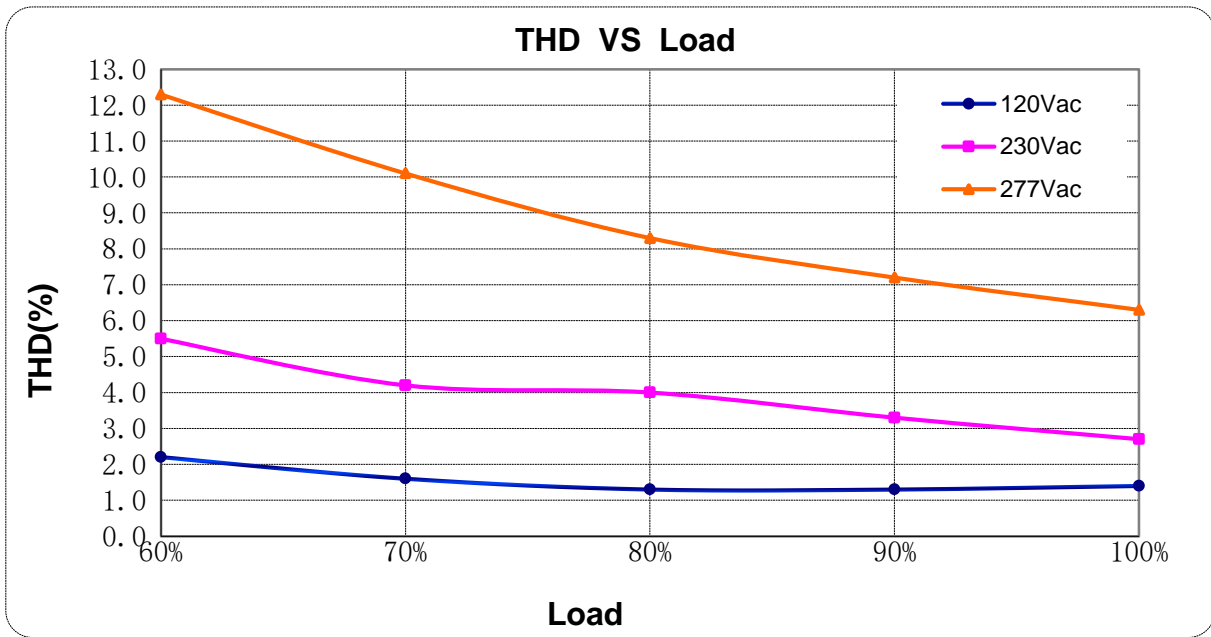
EFFICIENCY VS LOAD



POWER FACTOR VS LOAD



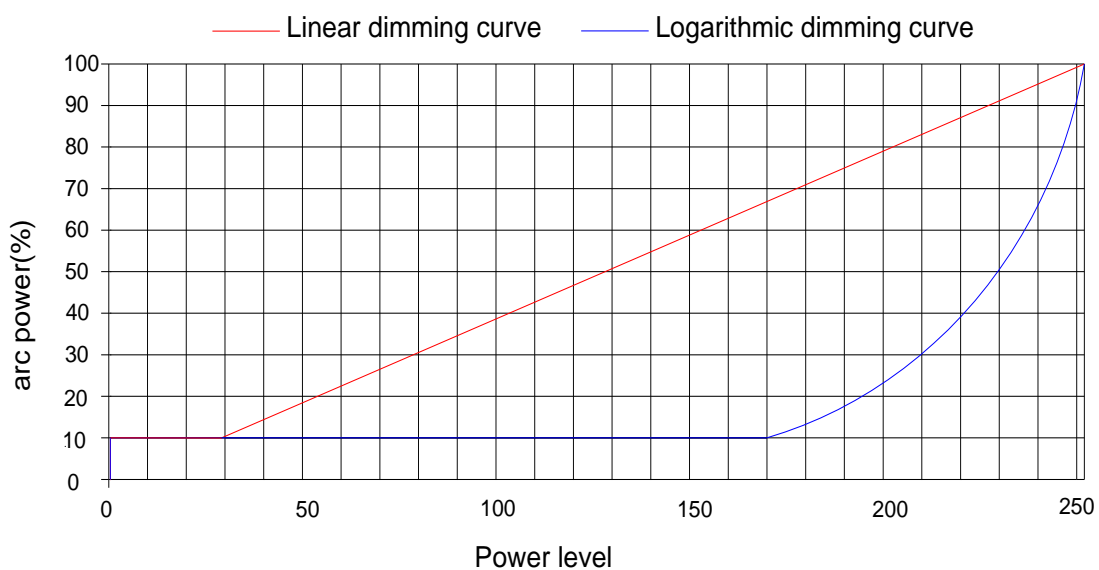
TOTAL HARMONIC DISTORTION



PROTECTIONS

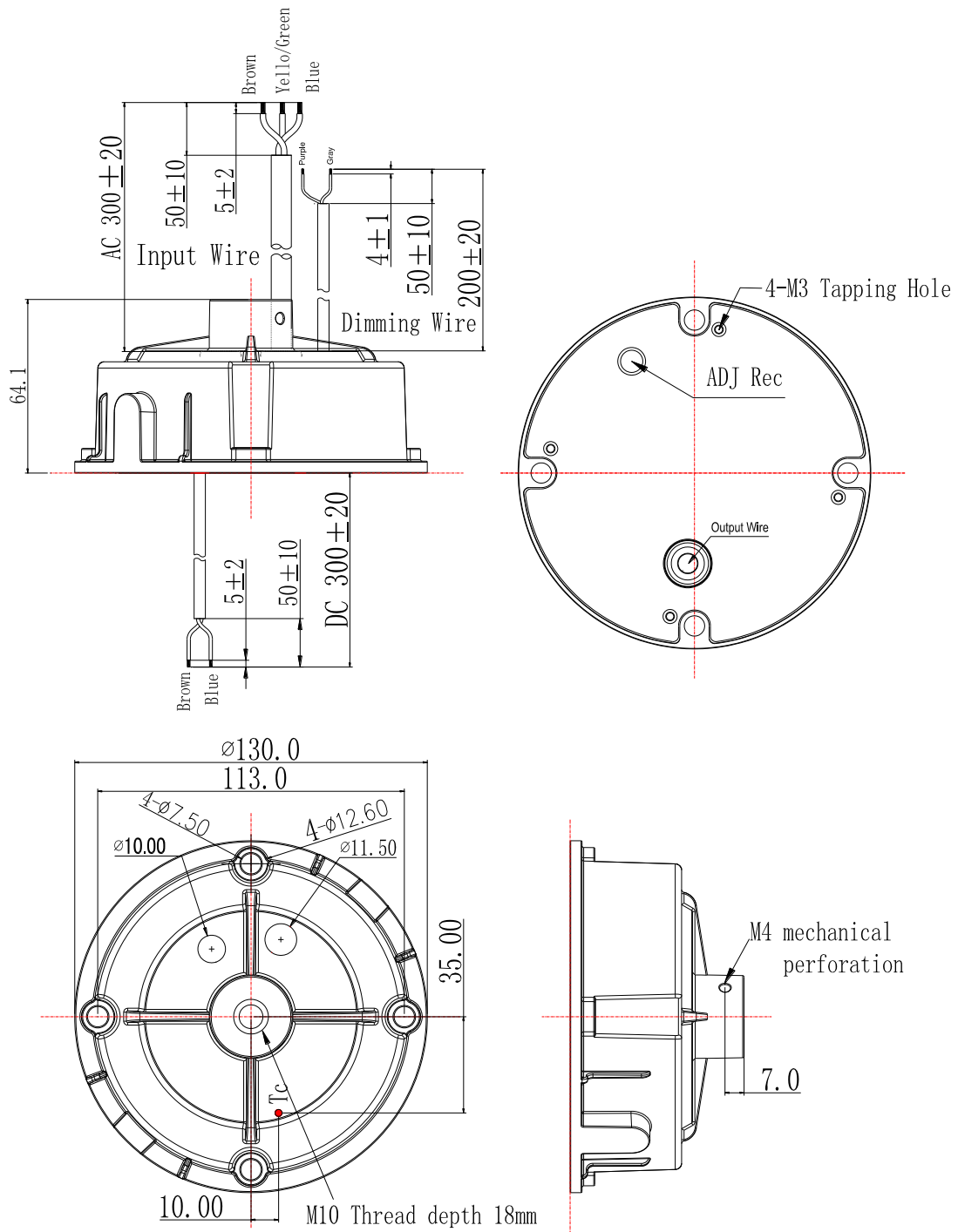
| Parameter | Notes |
|-----------------------------|--|
| Over Temperature Protection | Decreases output current, returning to normal after over temperature is removed, exclude auxiliary power supply. |
| Short Circuit Protection | Hiccup mode and auto recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed. |
| Over Voltage Protection | Run into protection model when output voltage exceeds limit, and return to normal when the fault. |

DALI-2 DIMMING CURVE



Note: Factory Default Output Logarithmic Curve

MECHANICAL OUTLINE



Note: Case color: RAL 9017 matte black.

| Wire | Specification | Note |
|---------|---|--------|
| Input | CCC+VDE 3x1.0mm ² L=300±20mm | CCC/CE |
| Output | CCC+VDE 2x1.0mm ² L=300±20mm | CCC/CE |
| Dimming | 22AWG*2C L=200±20mm | |

LABEL

90.00 mm

40.00 mm

Input **MOSO[®]** **G6-200D260H**
Constant current type

L Brown U_{out}(No Load) : 290V⁻⁻⁻

| | |
|----------|--|
| Input | 100-277V~50/60Hz, 3.0A Max. PF:0.9C |
| Output | Output voltage:180-260V ⁻⁻⁻ ; Irated:0.093-0.930A, Prated:200W Max. |
| tc:90 °C | ta:50 °C Input:100-120V~ |
| | ta:55 °C Input:120-277V~ |

G Y/G

N Blue

DALI 2

CE

Output
Brown "+"
Blue "-"

Control signal (DALI signal) {
Purple DA
Gray DA

Patented Product
Copyright reserved

For LED module only
MADE IN CHINA

SHENZHEN MOSO ELECTRONICS TECHNOLOGY CO., LTD
No.1061, Songbai Road, Xili Town, Nanshan District,
Shenzhen, CHINA

S20000A02F01

Product Specification

Product Name: 200W Non-isolated DALI-2 LED driver
Product Model: G6-200D260H
Rev. B.2

XiLiSongbai Road 1061,
Address: Nanshan District, Shenzhen City,
Guangdong Province, P.R.China

Post Code: 518108

TEL: 0755-27657000

FAX: 0755-27657908

E-mail: info@mosopower.com

Web site: <http://www.mosopower.com>

| Prepared By | Checked By | Approved By |
|-------------|------------|-------------|
| | | |

Specification for Approval

Product Name: 200W Non-isolated DALI-2LED driver
Product Model: G6-200D260H
Rev. B.2

| CUSTOMER AUTHORIZED SIGNATURE | | |
|---|------------|-------------|
| Tested By | Checked By | Approved By |
| | | |
| (Company seal)Return one copy to MOSO with approved signature and company seal. | | |

| Prepared By | Checked By | Approved By |
|-------------|------------|-------------|
| | | |