



Constant Current & Dimmable Driver

Model: AA3-DALI-D-EU



| Model | Output Current (230V Full Load) | Input Current (230V Full Load) | Input Power (230V Full Load) | Output Power Range | PF (Full Load) | Efficiency (Full Load) | Output Voltage |
|---------------|------------------------------------|-----------------------------------|---------------------------------|--------------------|-------------------|---------------------------|----------------|
| AA3-DALI-D-EU | 1750mA | 0.32A | 65W | 8.1-59.5W | 0.95 | 86% | 9-58V |

1. Parameters

| category | Item | Technical Norm |
|----------|---|--|
| Features | Output Type | Constant Current |
| | Dimming Type | 0-10V dimming |
| | Dimming Range | Primary PUSH & DALI dimming: 0%-100% 0-10V dimming : 2%-100% |
| | IP Grade | IP20 |
| | Insulation Class | Class |
| Input | Rated Input Voltage | 220-240VAC |
| | Range of Input Voltage | 198-264VAC |
| | Frequency | 50/60Hz |
| | Input Current | ≤0.32A (198VAC, full load) |
| | Input Power | ≤65W (230VAC, full load) |
| | Power Factor | ≥0.95 (230VAC, full load) |
| | THD | ≤13% (230VAC, full load) |
| | No-load power | ≤1W |
| | Stand-by Power | <0.5W (@230Vac when PUSH or DALI turn off) |
| | Inrush Current | <15A (Half current pulse width 100US) @230V AC |
| | Connected quantity of 16A Breaker | 32pcs/type B ;53pcs/type C @ 230Vac |
| Output | Ripple requirement (Flickering or flickering-Free) | Flicker value: less than 2% for whole dimming range |
| | Output Voltage Range | 9-58VDC |
| | No Load Voltage | 68VDC Max. |
| | Output Current | 900mA(9-58V) 1050mA(9-58V) 1200mA(9-50V), 1400mA(9-43V) 1750mA(9-34V) |
| | Constant current accuracy | ±5% |
| | Full load output power | 60W |

| | | | |
|----------------|--|--|---|
| | Efficiency | ≥86% (230VAC, full load) | |
| | Started Delay Time | ≤1S (230VAC, full load) | |
| Control Method | Primary PUSH dimming | Yes, Primary PUSH dimming (Maximum lead length: 20M) | |
| | 1-10V (0-10V) dimming | Yes, secondary 0-10V dimming, the darkest below 1V does not turn off | |
| | Dimming range | 2%-100% | |
| | Potentiometer dimming | 100K Potentiometer | |
| | DALI dimming | Yes (max lead length: 300m) | |
| Protection | Output over load protection | Yes | |
| | Output no load protection | Yes, self-recovery (with query function) | |
| | Output over temperature protection | Yes, without self recovery function (Can be inquired) | |
| | Output short circuit protection | Yes, without self recovery function (Can be inquired) | |
| Environment | Working environment temperature / humidity | Typical value | -25 ...+50 Humidity: 85% (non-condensing) |
| | Storage temperature/ humidity | -40 ... + 80 10 ~ 95% RH (non-condensing) | |
| | Max. Case Temp (Tc) | 85 | |
| Construction | Connection Method | Push-in Terminal | |
| | Installation | Independent installation | |
| | PRI Wire preparation | 0.75-1.5 [□] | |
| | SEC Wire preparation | 0.75-1.5 [□] | |
| | Dimension | 202*58*30mm (L*W*H) | |
| Standards | Certification | ENEC CE | |
| | Safety Standards | EN61347-1, EN61347-2-13,EN62493,EN60598-1 | |
| | EMC Standards | EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009 | |
| | DALI protocol standard | IEC62386-102 IEC62386-207 | |
| | Surge | L-N/1KV (L/N)-PE/2KV | |
| Others | Product Category | Class II appliances | |
| | Packaging requirement | Independent installation | |
| | Installation dimension | 202* 58* 30mm | |
| | Packaging requirements | PE bag + white box + manual + partition + outer box (K = A) | |
| | Life Time | 50000h Ta /Tc | |
| | Warranty | 2 Years, F.R. < 10000ppm | |

Remark: 1All Parameters, if not specified, are measured at 230VAC/50Hz and 25 ambient temperature.
 2. LED Driver is a component of the luminaires,Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

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2. Label

L

L Wire preparation 0.75-1.8mm

N 8mm

N

DA

DA

KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

DALI Dimmable LED Driver

• tc

Input Voltage(Vac):220-240 Uo(Vdc)Max.:68

Input Frequency(Hz):50/60 ta(°C):-25~+50

Power Factor(λ): 0.95 tc(°C): 85

| | | | | | |
|---------|----------|--------|---------|---------|---------|
| Io(mA) | 900 | 1050 | 1200 | 1400 | 1750 |
| Uo(Vdc) | 9-58 | 9-58 | 9-50 | 9-43 | 9-34 |
| Po(W) | 8.1-52.2 | 9.4-60 | 10.8-60 | 12.6-60 | 15.7-60 |

Before use, always check DIP switch settings.

DALI

14 EAC CE

SELV

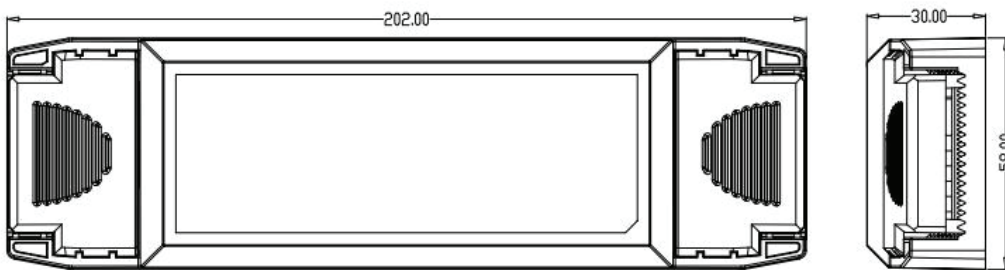
Output Current Setting

| | | | |
|--------|--------|--------|--------|
| 1 | 2 | 3 | 4 |
| ON | ON | ON | ON |
| 900mA | 1050mA | 1200mA | 1400mA |
| ON | ON | ON | ON |
| 1750mA | ON | ON | ON |

SEC

0-10Vdc <1mA

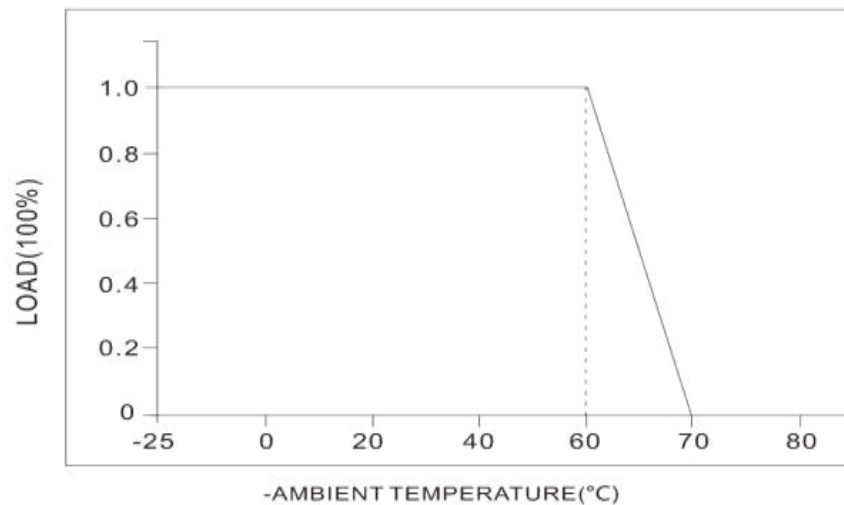
3. Dimension (Unit : mm)



4. Packing information

| Carton L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight / Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 575*230*225 | 50 | 0.26 | 11.7 | 13.08 |

5. Derating



6. Wiring Diagram

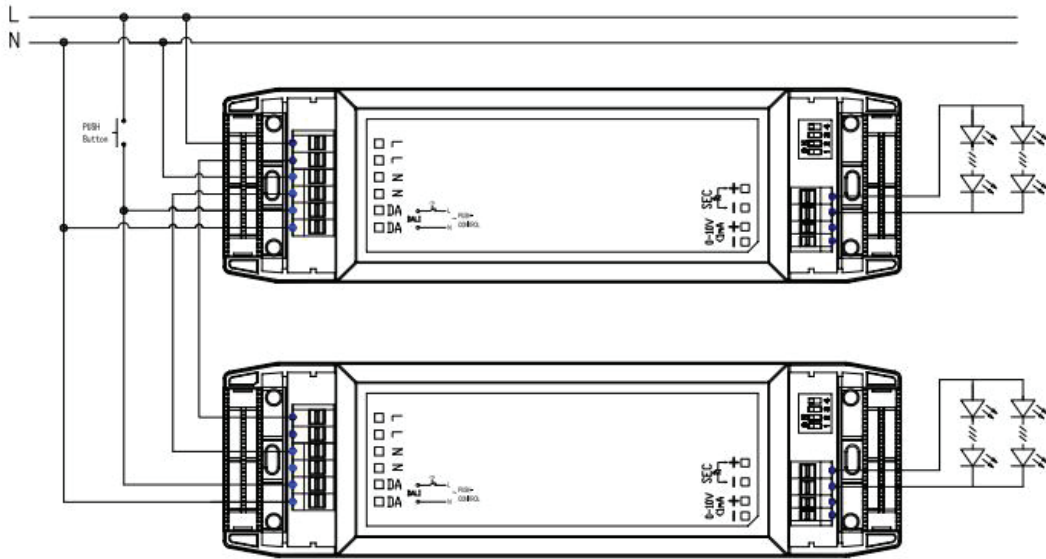


Fig. A PUSH Dimming wiring diagram

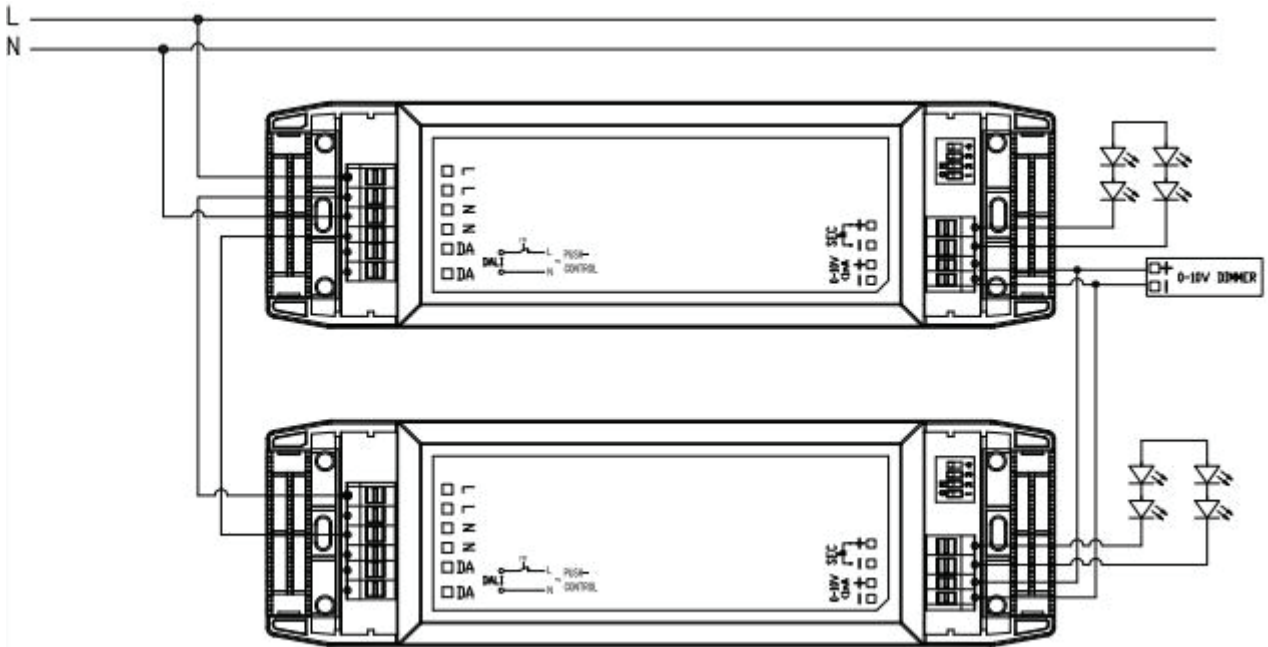


Fig. B 0-10V dimming wiring diagram

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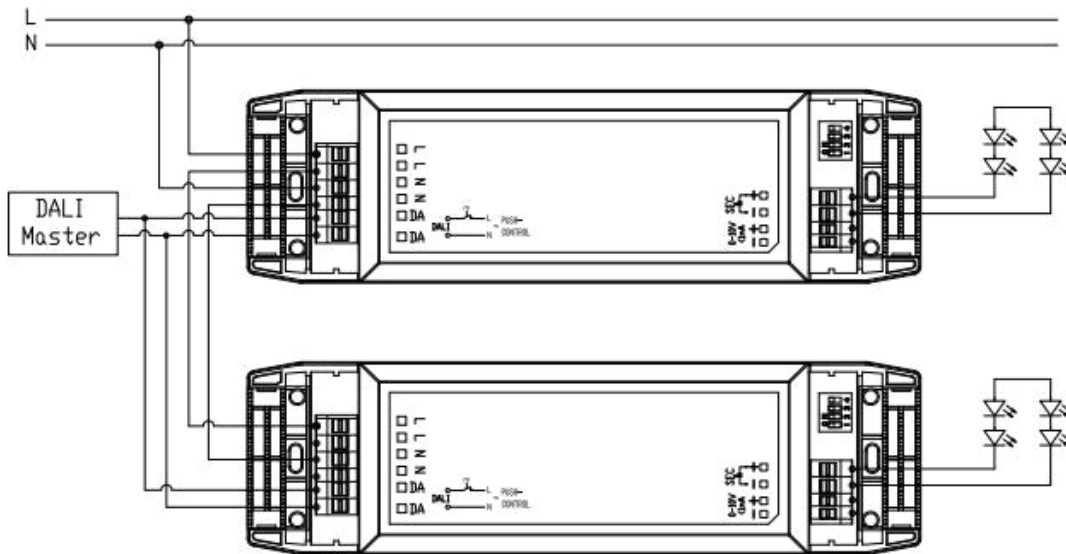
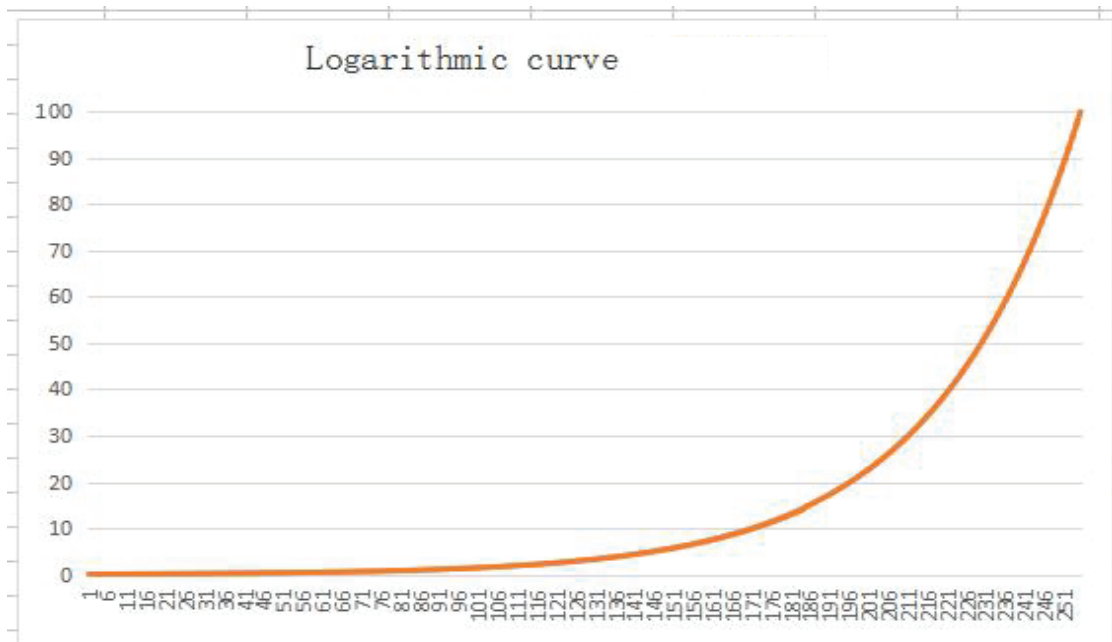
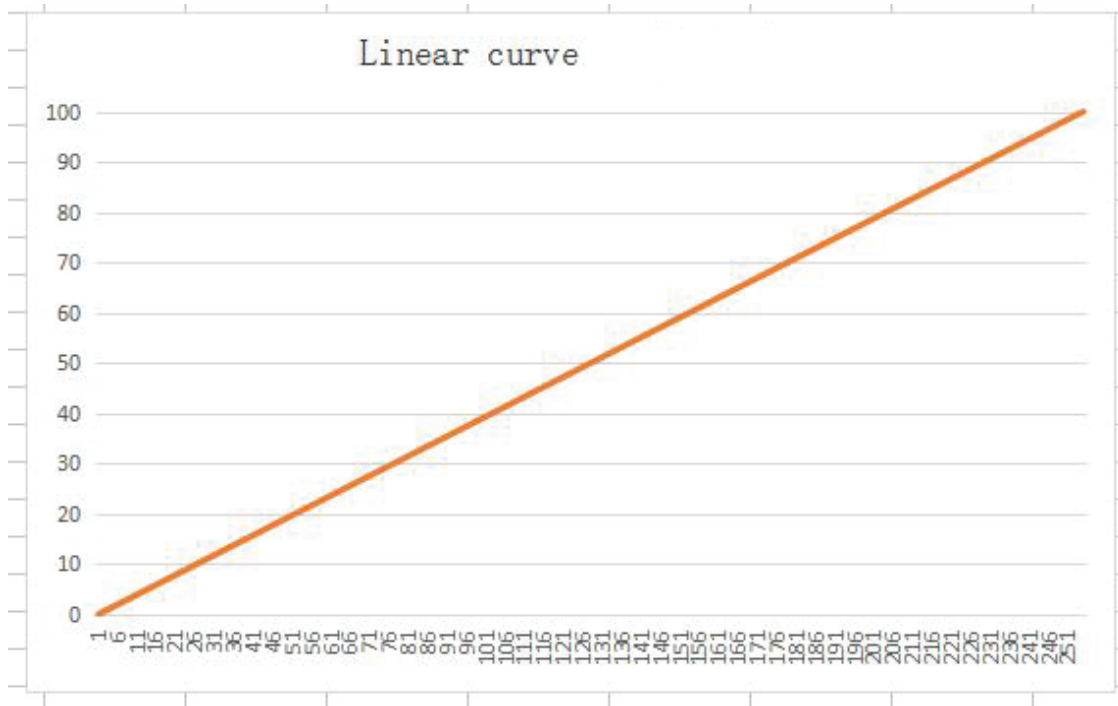


Fig.C DALI wiring diagram

7. Dimming curve



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8. Current gear setting

| Current / voltage gear setting | 1 | 2 | 3 | 4 |
|--------------------------------|----|----|----|----|
| 900MA | - | - | - | - |
| 1050MA | - | - | - | ON |
| 1200MA | - | - | ON | ON |
| 1400MA | - | ON | ON | ON |
| 1750MA | ON | ON | ON | ON |