



Constant Voltage Dimmable Driver

Model: LV30W24 DALI



| Model | Output Current | Input Current | Input Power | Output Power Range | PF (230V Full Load) | Efficiency (230V Full Load) | Output Voltage |
|--------------|----------------|---------------|-------------|--------------------|---------------------|-----------------------------|----------------|
| LV30W24 DALI | 0-1250mA | 0.18A | 38W | 0-30W | 0.92 | 83% | 24V |









* Test result @230V, 50Hz, Full Load.

1. Parameters

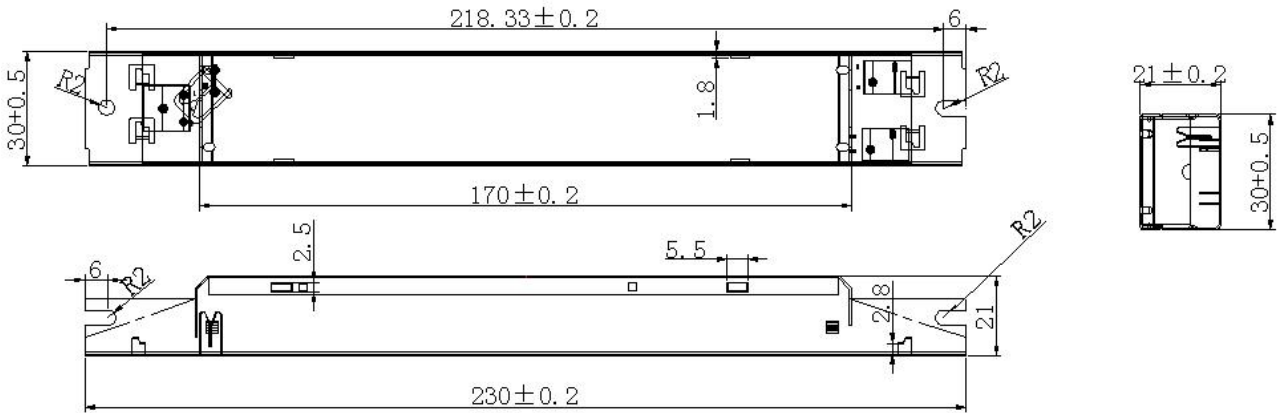
| category | Item | Technical Norm |
|-----------------------------------|--------------------------------------|---------------------------------------------------------|
| Features | Output Type | Constant Voltage |
| | Dimming Type | DALI |
| | Output Features | Isolation |
| | IP Grade | IP20 |
| | Insulation Class | Class I |
| Input | Rated Input Voltage | 220-240VAC |
| | Range of Input Voltage | 176-264VAC |
| | Range of DC Input Voltage | 176-280VDC |
| | Frequency | 50/60Hz |
| | Input Current | ≤0.18A |
| | Input Power | ≤38W |
| | Power Factor | ≥0.92 (230VAC, full load) |
| | THD | ≤15% (230VAC, full load) |
| | No-load Power Consumption | ≤0.5W @230VAC (DIM to off) |
| | Inrush Current | ≤23A/320us (230VAC, full load) |
| Connected quantity of 16A Breaker | 25pcs/type B ; 40pcs/type C @ 230VAC | |
| Output | Output Voltage | 24VDC+/-3% |
| | No Load Voltage | 24.8VDC Max. |
| | Output Current | 0 -1250mA |
| | Max. Output Power | 30W |
| | Efficiency | ≥83% (230VAC, full load) |
| | Voltage Ripple | 3% (Vmax-Vmin) / (Vmax+Vmin) |
| | Current Accuracy | N/A |
| Start up Time | ≤0.5S (230VAC, full load) | |
| Control | DALI function | DALI dimming (Max. lead wire length: 300m) logarithm or |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Method | | linear dimming curve selectable |
| | Dimming range | DALI dimming: 1%-100% (1KHz) |
| Protection | Short Circuit Protection | Auto Recovery |
| | Overload Protection | Auto Recovery |
| | No-load Protection | Auto Recovery |
| | Insulation voltage | 3000V 5mA 60S between P-S,1500V 5mA 60S between P-E |
| | Insulation resistance | >100M ohm @ 500VDC |
| | Leakage current | < 250μA, I/P to O/P or I/P to PE @230V input |
| Environment | Ta/Operation Temperature | -25....+50°C |
| | Ts/Storage Temperature | -40....+80°C |
| | Tc/Enclosure Temperature | 80°C |
| | Humidity | 10%....90%RH |
| | Atmosphere | 86-108KPa |
| Construction | Connection Method | Push-in Terminal |
| | Installation | Build-in |
| | PRI Wire preparation | 0.75-1.5 [□] |
| | SEC Wire preparation | 0.5-1.5 [□] |
| | Dimension | 230*30*21mm (L*W*H) |
| Standards | Certification | ENEC/CE/SAA |
| | Safety Standards | EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1 |
| | EMC Standards | EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009 |
| | Performance | EN62384 |
| | Surge | L-N/1KV (L/N)-PE/2KV |
| Others | RoHS | 2011/65/EU |
| | Life Time | 50000h @Ta / Tc |
| | Warranty | 5years , F.R. < 10000ppm |
| <p>Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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.</p> | | |

2. Label

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> N <input type="checkbox"/> ⊕ <input type="checkbox"/> L  | KGP KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenschied wire preparation | LED Dimmable Driver LV30W24 DALI Input Voltage: 220-240Vac Input Frequency: 50/60Hz Power Factor(λ): ≥0.92C Prange=0-30W I _{in} : ≤0.18A |  U _{rated} =24Vdc I _{range} =0-1250mA T _c : 80°C T _a : -25to+50°C For LED modules only |  tc SELV      | SEC <input type="checkbox"/> ⊕ I <input type="checkbox"/> ⊕ DA <input type="checkbox"/> DA <input type="checkbox"/> |
| | | | | | 8mm PRI 0.75-1.5 SEC 0.5-1.5 |

3. Dimension (Unit: mm)



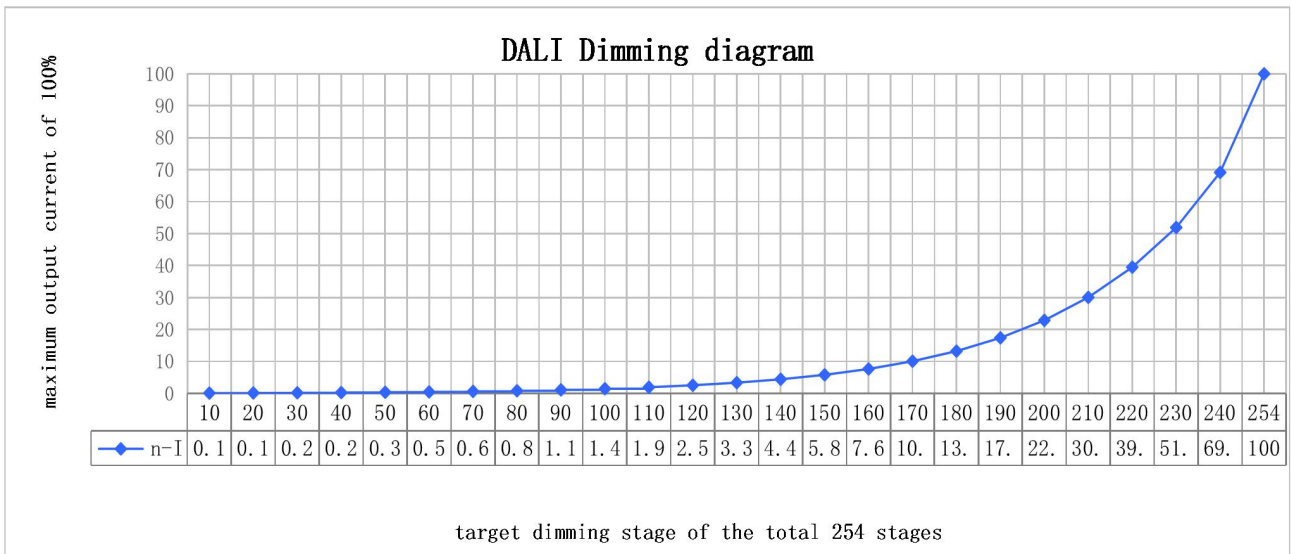
4. DALI dimming curve

4.1 formula for DALI dimming.

$$X(n) = 10^{\left\{ \left[\frac{(n-1)}{(253/3)} \right] - 1 \right\}}$$

Here, n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



5. Packing information

| Carton L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight / Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 410*270*190 | 60 | 0.17 | 10.2 | 10.76 |

6. Wiring Diagram

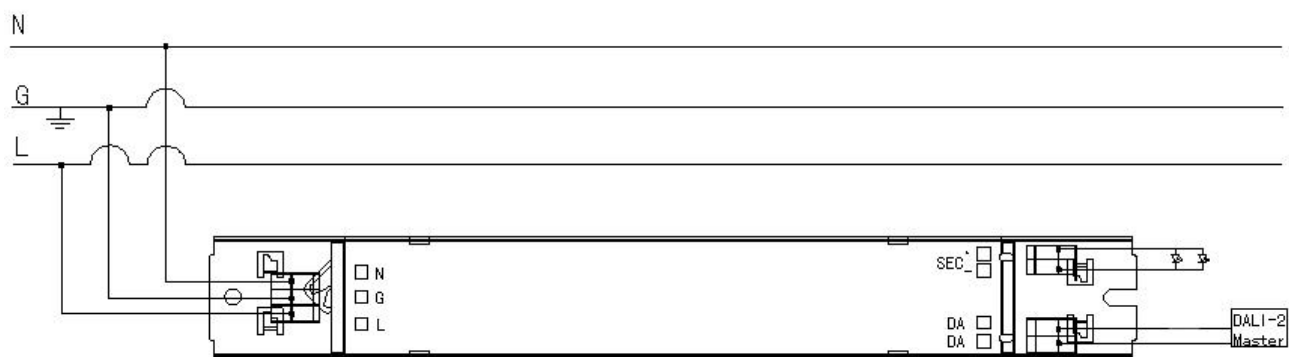


Fig. A: LV30W24 DALI