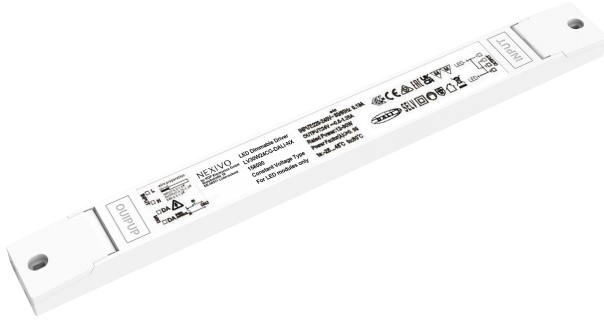




## LV(30-250)W24CG-DALI-NX

### Constant Voltage Driver

Model: LV(30-250)W24CG-DALI-NX



| Model              | Item Code | Output current | Input current | Input power | Output power range | PF    | Efficiency | Output voltage | No load voltage |
|--------------------|-----------|----------------|---------------|-------------|--------------------|-------|------------|----------------|-----------------|
| LV30W24CG-DALI-NX  | 158590    | 0.50-1.25A     | ≤0.19A        | ≤38.00W     | 12.00-30.00W       | ≥0.95 | 86%        | 24V            | 220-240 VAC     |
| LV60W24CG-DALI-NX  | 158600    | 1.00-2.50A     | ≤0.35A        | ≤72.00W     | 24.00-60.00W       |       | 87%        |                |                 |
| LV100W24CG-DALI-NX | 158610    | 1.25-4.17A     | ≤0.60A        | ≤115.00W    | 30.00-100.00W      |       | 92%        |                |                 |
| LV150W24CG-DALI-NX | 158620    | 1.88-6.25A     | ≤0.90A        | ≤168.00W    | 45.00-150.00W      |       | 92%        |                |                 |
| LV250W24CG-DALI-NX | 158630    | 3.12-10.42A    | ≤1.50A        | ≤275.00W    | 75.00-250.00W      |       | 92%        |                |                 |

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

### 1. Parameters

| Category | Item                      | Technical Norm                                                                                     |      |                                |
|----------|---------------------------|----------------------------------------------------------------------------------------------------|------|--------------------------------|
| Features | Output Type               | Constant Voltage                                                                                   |      |                                |
|          | Dimming Type              | DALI-2                                                                                             |      |                                |
|          | Output Features           | Isolation SELV                                                                                     |      |                                |
|          | IP Grade                  | IP20                                                                                               |      |                                |
|          | Insulation Class          | Class II                                                                                           |      |                                |
| Input    | Rated Input Voltage       | 220-240VAC                                                                                         |      |                                |
|          | Range of AC Input Voltage | 198-264VAC                                                                                         |      |                                |
|          | Range of DC Input Voltage | 198-280VDC(EMI not evaluated)                                                                      |      |                                |
|          | Frequency                 | Rate:50/60Hz,Range:47~63Hz                                                                         |      |                                |
|          | Power Factor              | ≥0.95, 220-240VAC, Rated Load, see graphs                                                          |      |                                |
|          | THD                       | 30W/60W                                                                                            | ≤10% | 230VAC, Rated Load, see graphs |
|          |                           | 100W/150W/250W                                                                                     | ≤7%  | 230VAC, Rated Load, see graphs |
|          | Standby Power Consumption | ≤0.5W, @230VAC,Dim to OFF                                                                          |      |                                |
| Output   | Output Voltage            | 24VDC+5%                                                                                           |      |                                |
|          | No load Voltage           | 24VDC+5%                                                                                           |      |                                |
|          | Output Voltage Ripple     | <240mV <sub>PK-PK</sub> (0.5%)                                                                     |      |                                |
|          | Line Regulation           | ±1%                                                                                                |      |                                |
|          | Load Regulation           | ±2%                                                                                                |      |                                |
|          | Overshoot                 | <105%V <sub>o</sub>                                                                                |      |                                |
|          | Start-up Time             | Start-up time <0.5s @ power switch on without DALI control.<br>Start-up time <1s @ DALI system on. |      |                                |

|                |                                     |                                                                                                                                             |                  |                   |                                                                                                                                                                              |
|----------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | Hold-up time & Turn off time        | Model                                                                                                                                       | Hold-up time(mS) | Turn-off time(mS) | 230VAC, LED Rated Load, Hold-up time measure from AC input turn-off to output voltage drop to 90%,turn-off time measure from AC input turn-off to output voltage drop to 90% |
|                |                                     | 30W                                                                                                                                         | 30               | 72.3              |                                                                                                                                                                              |
|                |                                     | 60W                                                                                                                                         | 22.8             | 62.8              |                                                                                                                                                                              |
|                |                                     | 100W                                                                                                                                        | 9.2              | 69.8              |                                                                                                                                                                              |
|                |                                     | 150W                                                                                                                                        | 10               | 384               |                                                                                                                                                                              |
|                |                                     | 250W                                                                                                                                        | 16.2             | 676               |                                                                                                                                                                              |
|                | Efficiency                          | 30W                                                                                                                                         | ≥85%             | 86% typ.          | 230VAC, Rated Load, at output terminals, see graphs                                                                                                                          |
|                |                                     | 60W                                                                                                                                         | ≥86%             | 87% typ.          |                                                                                                                                                                              |
|                |                                     | 100W                                                                                                                                        | ≥91%             | 92% typ.          |                                                                                                                                                                              |
|                |                                     | 150W                                                                                                                                        | ≥91%             | 92% typ.          |                                                                                                                                                                              |
| 250W           |                                     | ≥91%                                                                                                                                        | 92% typ.         |                   |                                                                                                                                                                              |
| Protection     | Short Circuit Protection            | Auto Recovery                                                                                                                               |                  |                   |                                                                                                                                                                              |
|                | Over Current Protection             | 120%-180%Io, Auto Recovery                                                                                                                  |                  |                   |                                                                                                                                                                              |
|                | Over Voltage Protection             | 110%-150%Vo, Auto Recovery                                                                                                                  |                  |                   |                                                                                                                                                                              |
|                | Over Temperature Protection         | 90<Tc<110℃, Auto Recovery（Only for 100W/150W/250W）                                                                                          |                  |                   |                                                                                                                                                                              |
|                | Insulation voltage                  | I/P to O/P,3KVac/5mA/1min                                                                                                                   |                  |                   |                                                                                                                                                                              |
|                | Insulation resistance               | >100M ohm @ 500VDC                                                                                                                          |                  |                   |                                                                                                                                                                              |
|                | Leakage current                     | I/P to O/P < 250μA                                                                                                                          |                  |                   |                                                                                                                                                                              |
| Control Method | PUSH dimming                        | PUSH dimming (Max. lead wire length: 20m,same port of DALI)                                                                                 |                  |                   |                                                                                                                                                                              |
|                | PUSH-button                         | Max parallel connection qty for Push-dim 15                                                                                                 |                  |                   |                                                                                                                                                                              |
|                | DALI function                       | DALI dimming (Max. lead wire length: 300m ) logarithm or linear dimming curve selectable<br>DALI-2 certified incl. Parts 251, 252, 253, CLO |                  |                   |                                                                                                                                                                              |
|                | Dimming range                       | DALI dimming: 1%-100%                                                                                                                       |                  |                   |                                                                                                                                                                              |
|                | Dimming frequency                   | 2KHz                                                                                                                                        |                  |                   |                                                                                                                                                                              |
|                |                                     |                                                                                                                                             |                  |                   |                                                                                                                                                                              |
| Environment    | Ta/Operation Temperature            | -25....+45℃                                                                                                                                 |                  |                   |                                                                                                                                                                              |
|                | Ts/Storage Temperature              | -40....+85℃                                                                                                                                 |                  |                   |                                                                                                                                                                              |
|                | Tc/Enclosure Temperature For Safety | 30W                                                                                                                                         | 80℃              |                   |                                                                                                                                                                              |
|                |                                     | 60W/100W/150W/250W                                                                                                                          | 90℃              |                   |                                                                                                                                                                              |
|                | Humidity                            | 5% 85%RH                                                                                                                                    |                  |                   |                                                                                                                                                                              |
|                | Atmosphere                          | 86-108KPa                                                                                                                                   |                  |                   |                                                                                                                                                                              |
| Construction   | Connection Method                   | Terminal                                                                                                                                    |                  |                   |                                                                                                                                                                              |
|                | Cable Terminals                     | Input                                                                                                                                       | 1 terminal block |                   |                                                                                                                                                                              |
|                |                                     | Output                                                                                                                                      | 2 terminal block |                   |                                                                                                                                                                              |
|                |                                     | Dimming                                                                                                                                     | 1 terminal block |                   |                                                                                                                                                                              |
|                | Installation                        | Independent                                                                                                                                 |                  |                   |                                                                                                                                                                              |
|                | Input Wire Cross Section            | 30W/60W/100W/150W                                                                                                                           | 0.5mm²-1.5 mm²   |                   |                                                                                                                                                                              |
|                |                                     | 250W                                                                                                                                        | 0.75mm²-1.5 mm²  |                   |                                                                                                                                                                              |
|                | Output Wire Cross Section           | 2*0.75mm²-1.5 mm²                                                                                                                           |                  |                   |                                                                                                                                                                              |
|                | Dimming Wire Cross Section          | 0.5mm²-1.5 mm²                                                                                                                              |                  |                   |                                                                                                                                                                              |
|                | Output Cable Length                 | Max. 3M                                                                                                                                     |                  |                   |                                                                                                                                                                              |

|                    |                                               |                                                                                                                                                                                                                                                                       |                                        |                                                     |
|--------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------|
|                    | Cable diameters range                         | Input& Dimming                                                                                                                                                                                                                                                        |                                        | 2.2-4mm                                             |
|                    |                                               | Output                                                                                                                                                                                                                                                                |                                        | 2.2-4mm or 9.5-10.5mm                               |
|                    | Dimension                                     | 30W                                                                                                                                                                                                                                                                   |                                        | 300*30*16mm (L*W*H)                                 |
|                    |                                               | 60W/100W/150W                                                                                                                                                                                                                                                         |                                        | 350*30*18mm (L*W*H)                                 |
|                    |                                               | 250W                                                                                                                                                                                                                                                                  |                                        | 400*40*22mm (L*W*H)                                 |
| Standards          | Certification                                 | ENEC,CE,SAA,UKCA                                                                                                                                                                                                                                                      |                                        |                                                     |
|                    | Safety Standards                              | EN 61347-1:2015/A1:2021,EN 61347-2-13:2014/A1:2017,EN IEC 62384:2020,EN 62493:2015,AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1,BS EN 61347-1:2015/A1:2021, BS EN 61347-2-13:2014/A1:2017,BS EN 62493:2015, BS EN IEC 62384:2020                                     |                                        |                                                     |
|                    | EMC Standards                                 | EN IEC 55015:2019,EN IEC 55015:2019/A11:2020, EN IEC 61000-3-2:2019/A1:2021,EN 61000-3-3:2013/A2:2021 EN 61547:2009,EMC for UKCA,BS EN IEC 55015:2019, BS EN IEC 55015:2019+A11:2020,BS EN 61547:2009, BS EN IEC 61000-3-2:2019/A1:2021, BS EN 61000-3-3:2013+A2:2021 |                                        |                                                     |
|                    | Performance                                   | EN62384;IEC 62386-101 Edition2.0 2014-11; BS EN 62386-102:2014 ; BS EN 62386-207:2009 DALI Part -251,-252 and -253                                                                                                                                                    |                                        |                                                     |
|                    | Surge                                         | L-N:2KV                                                                                                                                                                                                                                                               |                                        |                                                     |
|                    | Others                                        | RoHS                                                                                                                                                                                                                                                                  | 2011/65/EU                             |                                                     |
| MTBF               |                                               | ≥250KHours,Ta=25℃(MIL-HDBK-217F)                                                                                                                                                                                                                                      |                                        |                                                     |
| Audible Noise      |                                               | 30W/60W                                                                                                                                                                                                                                                               | <28dB @ 15cm distance, 18dB background |                                                     |
|                    |                                               | 100W/150W/250W                                                                                                                                                                                                                                                        | <28dB @ 15cm distance, 18dB background |                                                     |
| Life Time(@Ta max) |                                               | 30W                                                                                                                                                                                                                                                                   | ≥80K Hrs                               | @230VAC , full load, End of Life: Failure Rate<10%. |
|                    |                                               | 60W                                                                                                                                                                                                                                                                   | ≥60K Hrs                               |                                                     |
|                    |                                               | 100W                                                                                                                                                                                                                                                                  | ≥60K Hrs                               |                                                     |
|                    |                                               | 150W                                                                                                                                                                                                                                                                  | ≥55K Hrs                               |                                                     |
|                    |                                               | 250W                                                                                                                                                                                                                                                                  | ≥52K Hrs                               |                                                     |
| Warranty           | 5years, End of Life: Maximum Failure Rate<10% |                                                                                                                                                                                                                                                                       |                                        |                                                     |

**Remark:**

- 1.All 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.
- 3.Output ripple should be measured at the output end which has with 0.1uF/50V ceramic capacitance and 47uF/50V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.

## 2. Connected quantities of different current Breaker

| TYPE   | LV30W24CG-DALI-NX Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current<br><25A | Time  |
|--------|---------------------------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|------------------------|-------|
|        | current (A)                                                         | 10                 | 13                 | 16                 | 20               | 25               |               |                        |       |
|        | Installation wire diameter                                          | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                        |       |
| TYPE B |                                                                     | 27                 | 35                 | 44                 | 55               | 68               | @230VAC       | 22                     | 200µs |
| TYPE C |                                                                     | 44                 | 57                 | 70                 | 87               | 109              |               |                        |       |
| TYPE D |                                                                     | 70                 | 91                 | 112                | 140              | 175              |               |                        |       |

| TYPE   | LV60W24CG-DALI-NX Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current<br><30A | Time  |
|--------|---------------------------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|------------------------|-------|
|        | current (A)                                                         | 10                 | 13                 | 16                 | 20               | 25               |               |                        |       |
|        | Installation wire diameter                                          | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                        |       |
| TYPE B |                                                                     | 23                 | 30                 | 37                 | 46               | 58               | @230VAC       | 26                     | 220µs |
| TYPE C |                                                                     | 37                 | 48                 | 59                 | 74               | 92               |               |                        |       |
| TYPE D |                                                                     | 59                 | 77                 | 95                 | 118              | 148              |               |                        |       |

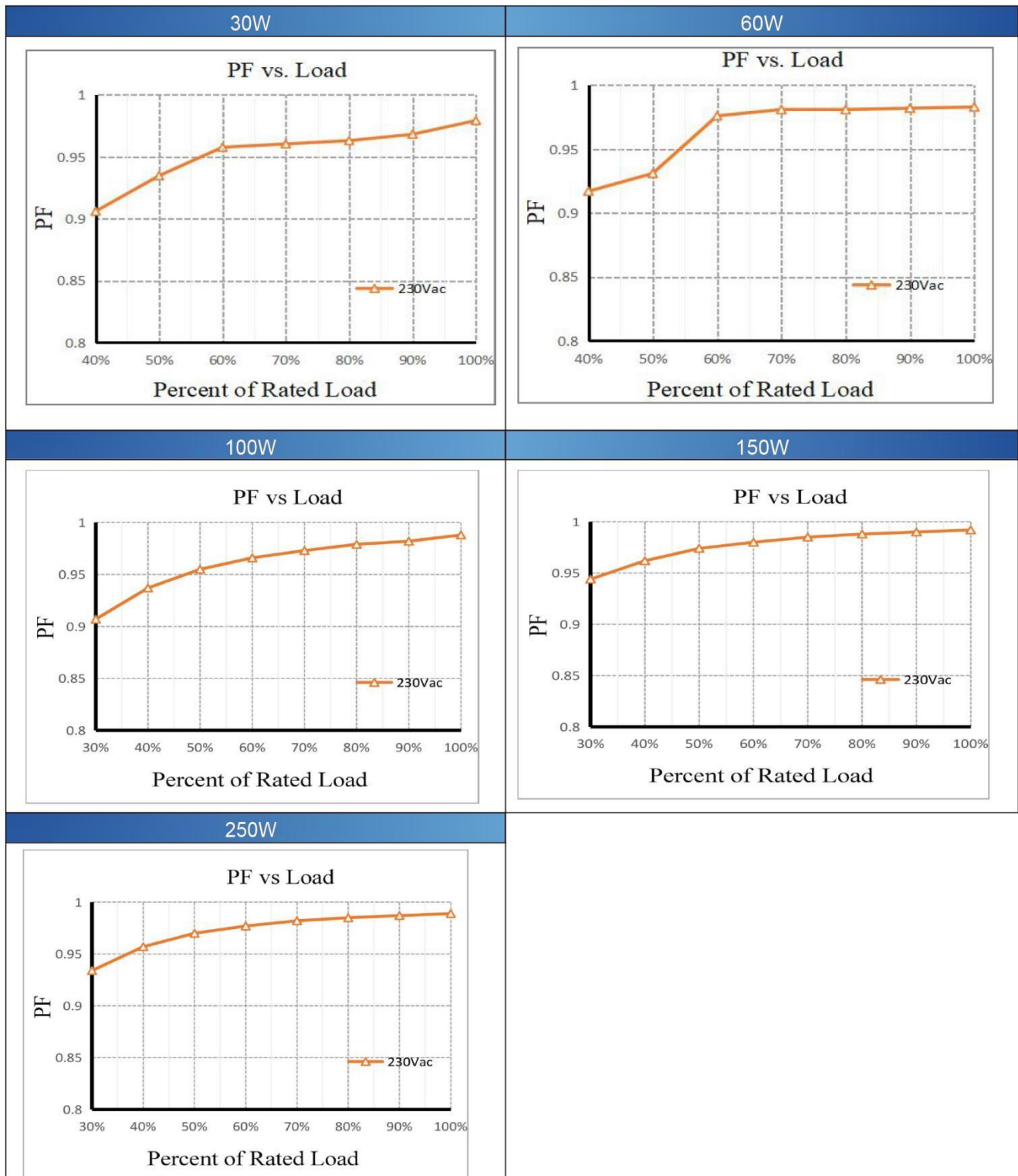
| TYPE   | LV100W24CG-DALI-NX Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current<br><50A | Time  |
|--------|----------------------------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|------------------------|-------|
|        | current (A)                                                          | 10                 | 13                 | 16                 | 20               | 25               |               |                        |       |
|        | Installation wire diameter                                           | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                        |       |
| TYPE B |                                                                      | 13                 | 17                 | 21                 | 27               | 33               | @230VAC       | 45                     | 250µs |
| TYPE C |                                                                      | 21                 | 28                 | 34                 | 43               | 53               |               |                        |       |
| TYPE D |                                                                      | 34                 | 44                 | 55                 | 68               | 85               |               |                        |       |

| TYPE   | LV150W24CG-DALI-NX Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current<br><60A | Time  |
|--------|----------------------------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|------------------------|-------|
|        | current (A)                                                          | 10                 | 13                 | 16                 | 20               | 25               |               |                        |       |
|        | Installation wire diameter                                           | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                        |       |
| TYPE B |                                                                      | 11                 | 14                 | 17                 | 21               | 27               | @230VAC       | 56                     | 185µs |
| TYPE C |                                                                      | 17                 | 22                 | 27                 | 34               | 43               |               |                        |       |
| TYPE D |                                                                      | 27                 | 36                 | 44                 | 55               | 69               |               |                        |       |

| TYPE   | LV250W24CG-DALI-NX Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current<br><80A | Time  |
|--------|----------------------------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|------------------------|-------|
|        | current (A)                                                          | 10                 | 13                 | 16                 | 20               | 25               |               |                        |       |
|        | Installation wire diameter                                           | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                        |       |
| TYPE B |                                                                      | 8                  | 10                 | 13                 | 16               | 20               | @230VAC       | 76                     | 310µs |
| TYPE C |                                                                      | 13                 | 16                 | 20                 | 25               | 32               |               |                        |       |
| TYPE D |                                                                      | 20                 | 26                 | 32                 | 40               | 51               |               |                        |       |

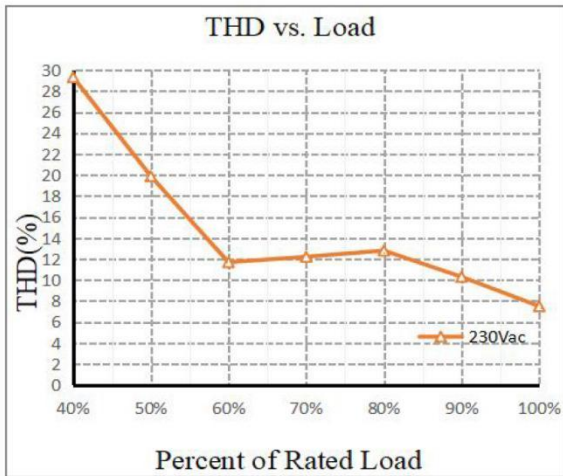
### 3.Graph

#### PF VS LOAD Curve

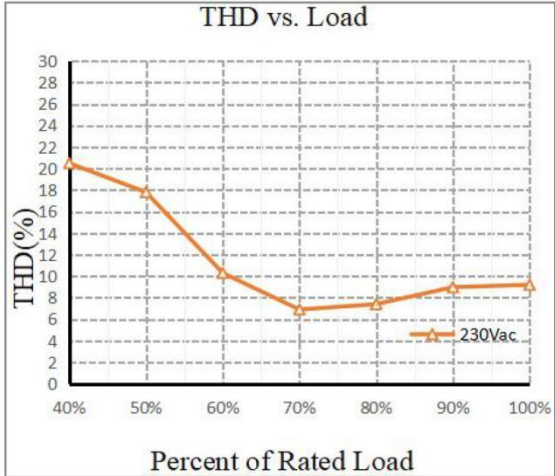


### THD VS LOAD Curve

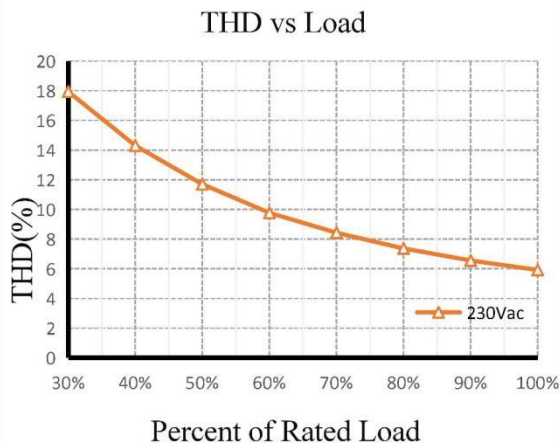
30W



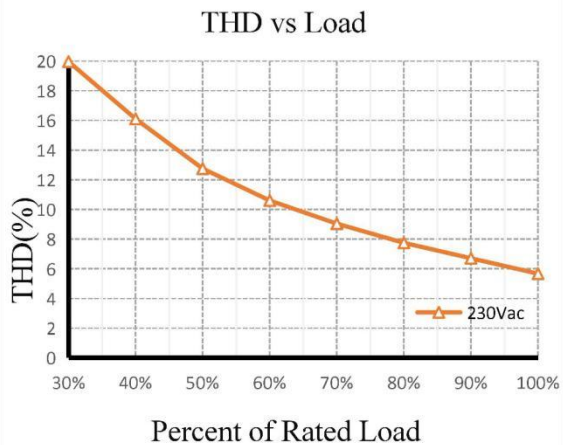
60W



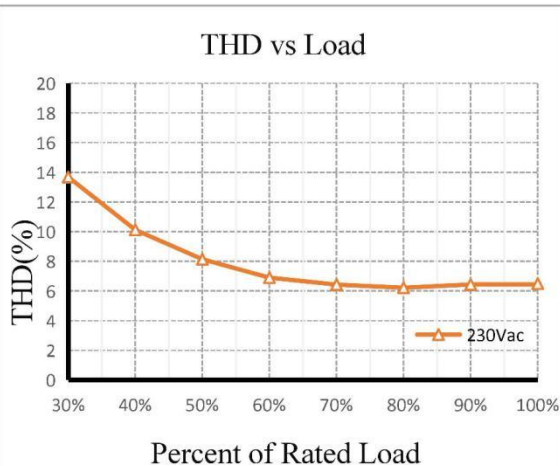
100W



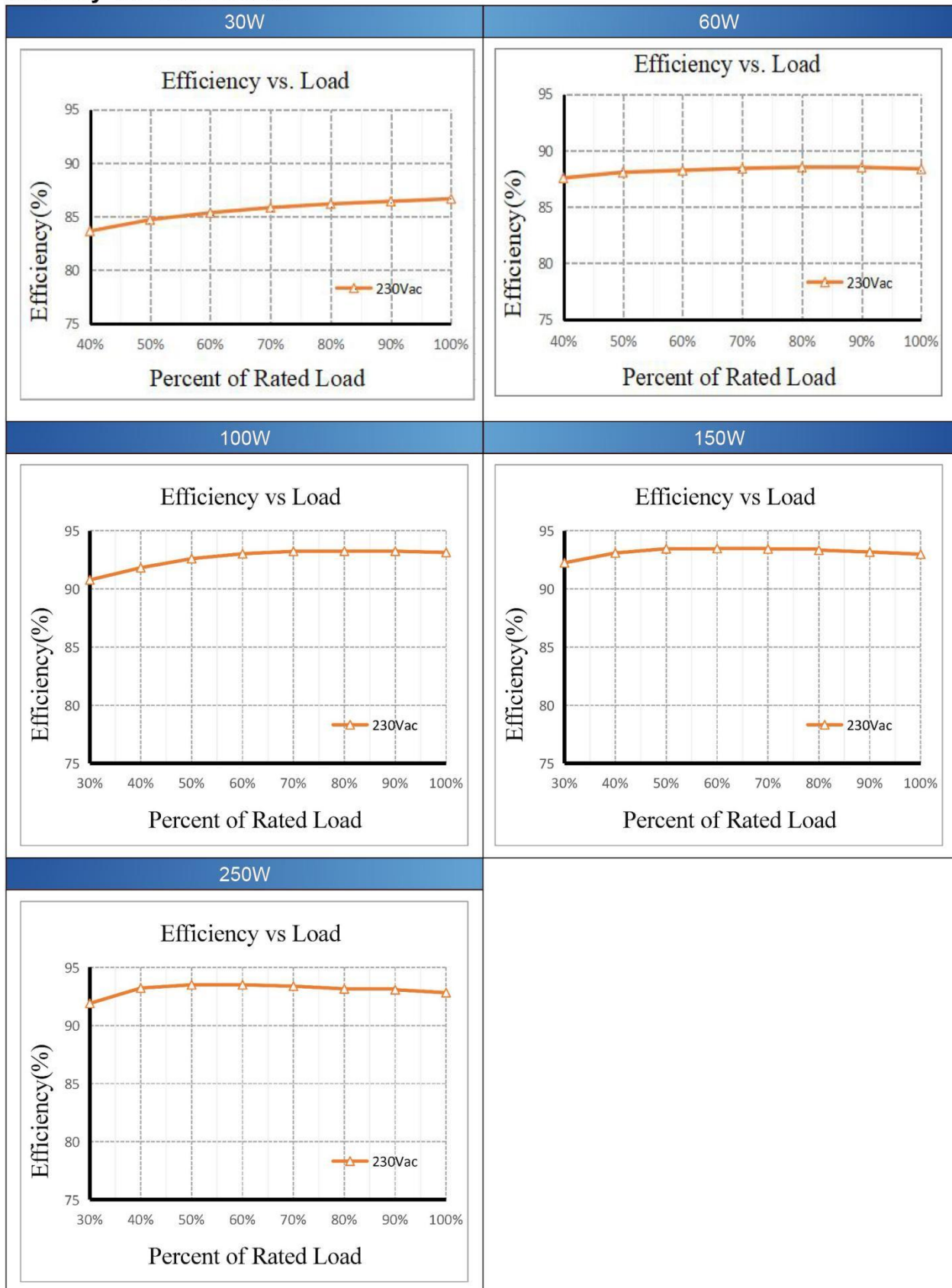
150W



250W



### Efficiency VS LOAD Curve



### 4. Label

|                                                                                                                                                                                         |                                                                                    |                                                                                                     |                                                                                                                                    |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <input type="checkbox"/> L wire preparation<br><input type="checkbox"/> N INPUT: 0.5-1.5*<br><input type="checkbox"/> DA OUTPUT: 0.75-1.5*<br><input type="checkbox"/> DA DIM: 0.5-1.5* | <b>NEXIVO</b><br>by KGP Electronics GmbH<br>Hueckstraße 19<br>DE-58511 Lüdenscheid | LED Dimmable Driver<br>LV30W24CG-DALI-NX<br>158590<br>Constant Voltage Type<br>For LED modules only | INPUT: 220-240V~50/60Hz 0.19A<br>OUTPUT: 24V~0.5-1.25A<br>Rated Power: 12-30W<br>Power Factor(λ): ≥0.95<br>ta: -25...45°C tc: 80°C |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|

|                                                                                                                                                                                         |                                                                                    |                                                                                                     |                                                                                                                                 |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|--|
| <input type="checkbox"/> L wire preparation<br><input type="checkbox"/> N INPUT: 0.5-1.5*<br><input type="checkbox"/> DA OUTPUT: 0.75-1.5*<br><input type="checkbox"/> DA DIM: 0.5-1.5* | <b>NEXIVO</b><br>by KGP Electronics GmbH<br>Hueckstraße 19<br>DE-58511 Lüdenscheid | LED Dimmable Driver<br>LV60W24CG-DALI-NX<br>158600<br>Constant Voltage Type<br>For LED modules only | INPUT: 220-240V~50/60Hz 0.36A<br>OUTPUT: 24V~1-2.5A<br>Rated Power: 24-60W<br>Power Factor(λ): ≥0.95<br>ta: -25...45°C tc: 90°C |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|--|

|                                                                                                                                                                                         |                                                                                    |                                                                                                      |                                                                                                                                     |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <input type="checkbox"/> L wire preparation<br><input type="checkbox"/> N INPUT: 0.5-1.5*<br><input type="checkbox"/> DA OUTPUT: 0.75-1.5*<br><input type="checkbox"/> DA DIM: 0.5-1.5* | <b>NEXIVO</b><br>by KGP Electronics GmbH<br>Hueckstraße 19<br>DE-58511 Lüdenscheid | LED Dimmable Driver<br>LV100W24CG-DALI-NX<br>158610<br>Constant Voltage Type<br>For LED modules only | INPUT: 220-240V~50/60Hz 0.8A<br>OUTPUT: 24V~1.25-4.17A<br>Rated Power: 30-100W<br>Power Factor(λ): ≥0.95<br>ta: -25...45°C tc: 90°C |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|

|                                                                                                                                                                                         |                                                                                    |                                                                                                      |                                                                                                                                      |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <input type="checkbox"/> L wire preparation<br><input type="checkbox"/> N INPUT: 0.5-1.5*<br><input type="checkbox"/> DA OUTPUT: 0.75-1.5*<br><input type="checkbox"/> DA DIM: 0.5-1.5* | <b>NEXIVO</b><br>by KGP Electronics GmbH<br>Hueckstraße 19<br>DE-58511 Lüdenscheid | LED Dimmable Driver<br>LV150W24CG-DALI-NX<br>158620<br>Constant Voltage Type<br>For LED modules only | INPUT: 220-240V~50/60Hz 0.8A<br>OUTPUT: 24V~1.875-6.25A<br>Rated Power: 45-150W<br>Power Factor(λ): ≥0.95<br>ta: -25...45°C tc: 90°C |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|

|                                                                                                                                                                                           |                                                                                    |                                                                                                      |                                                                                                                                      |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <input type="checkbox"/> L wire preparation<br><input type="checkbox"/> N INPUT: 0.75-1.5*<br><input type="checkbox"/> DA OUTPUT: 0.75-1.5*<br><input type="checkbox"/> DA DIM: 0.75-1.5* | <b>NEXIVO</b><br>by KGP Electronics GmbH<br>Hueckstraße 19<br>DE-58511 Lüdenscheid | LED Dimmable Driver<br>LV250W24CG-DALI-NX<br>158630<br>Constant Voltage Type<br>For LED modules only | INPUT: 220-240V~50/60Hz 1.5A<br>OUTPUT: 24V~3.12-10.42A<br>Rated Power: 75-250W<br>Power Factor(λ): ≥0.95<br>ta: -25...45°C tc: 90°C |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|

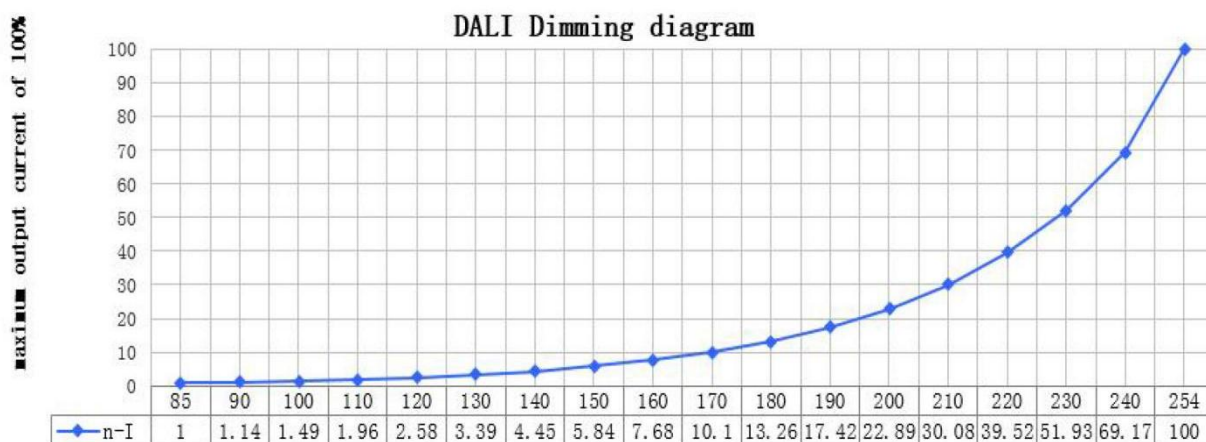
### 5. DALI dimming curve

5.1 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.

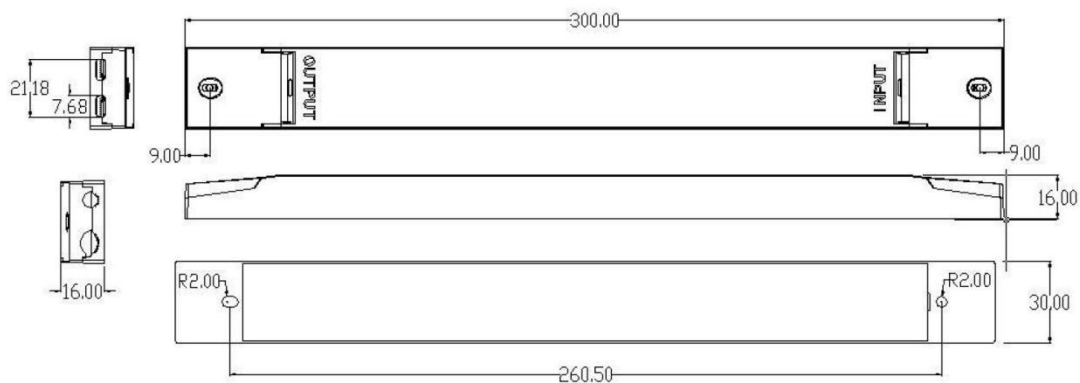
X(n) means the percent of the maximum output current



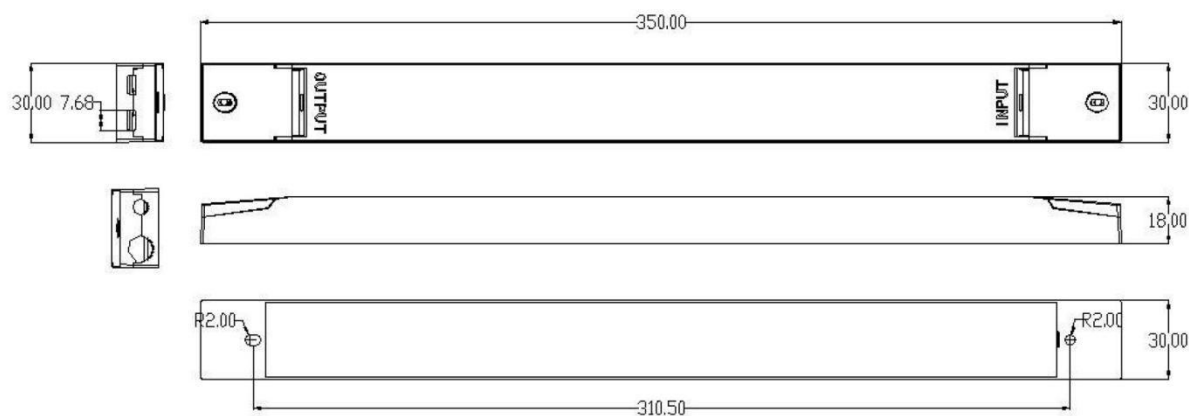
target dimming stage of the total 254 stages

### 6. Dimension (Unit: mm)

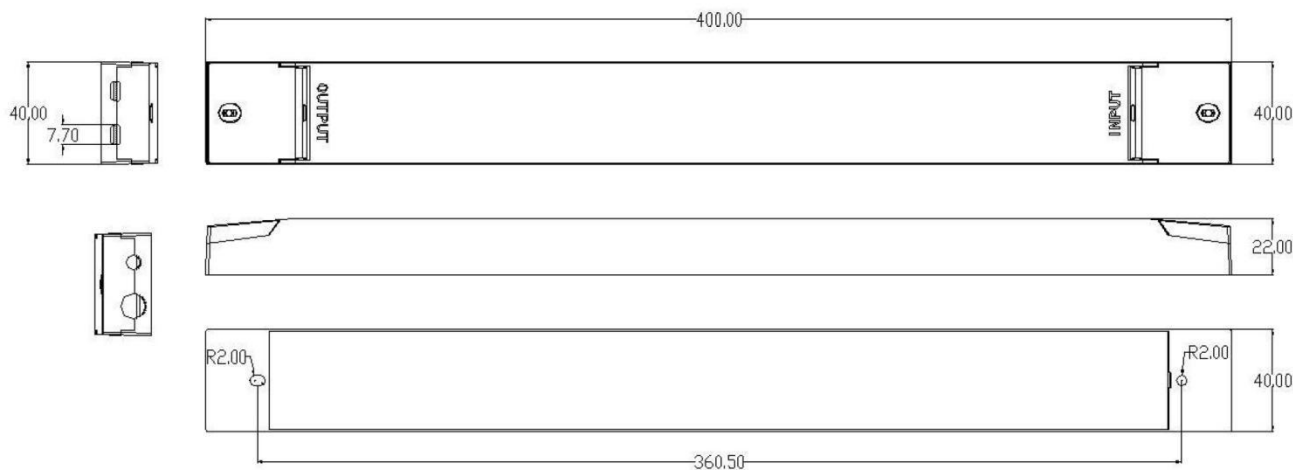
#### LV30W24CG-DALI-NX:



#### LV60W24CG-DALI-NX&LV100W24CG-DALI-NX&LV150W24CG-DALI-NX:



#### LV250W24CG-DALI-NX:



## 7. Wiring Diagram

Fig. A: Push Dimming

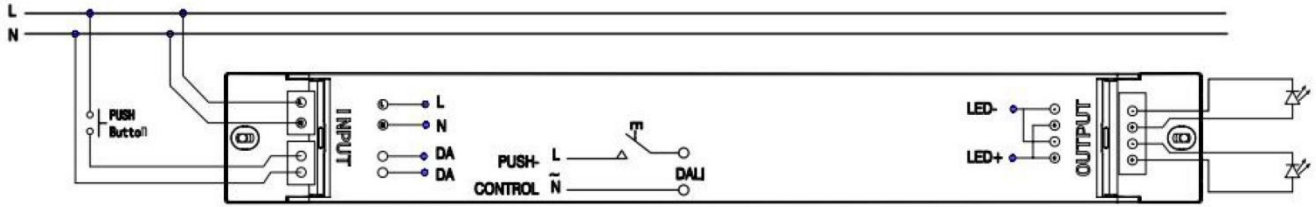
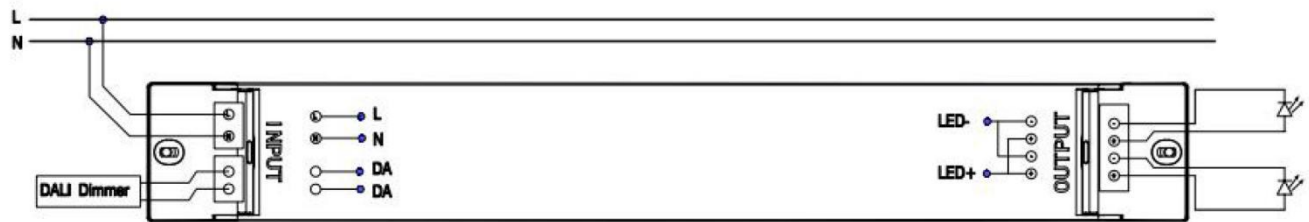


Fig. B: DALI Dimming



## 8. Packing information

| Packing way                        | Model              | Carton<br>L*W*H(mm) | Pcs/Carton | Net eight/<br>Pcs(kg) | Net weight/<br>Carton(kg) | Gross<br>weight<br>/Carton(kg) |
|------------------------------------|--------------------|---------------------|------------|-----------------------|---------------------------|--------------------------------|
| With white<br>box<br>and manual    | LV30W24CG-DALI-NX  | 320*230*195         | 50         | 0.14                  | 7.15                      | 7.78                           |
|                                    | LV60W24CG-DALI-NX  | 375*235*195         | 50         | 0.23                  | 11.50                     | 12.20                          |
|                                    | LV100W24CG-DALI-NX |                     |            | 0.27                  | 13.50                     | 14.30                          |
|                                    | LV150W24CG-DALI-NX |                     |            | 0.29                  | 14.50                     | 15.30                          |
|                                    | LV250W24CG-DALI-NX | 420*230*160         | 25         | 0.53                  | 13.25                     | 13.94                          |
| Without<br>white box<br>and manual | LV30W24CG-DALI-NX  | 440*345*155         | 60         | 0.13                  | 7.50                      | 8.12                           |
|                                    | LV60W24CG-DALI-NX  | 440*345*155         | 40         | 0.25                  | 10.00                     | 10.70                          |
|                                    | LV100W24CG-DALI-NX |                     |            | 0.27                  | 10.80                     | 11.50                          |
|                                    | LV150W24CG-DALI-NX |                     |            | 0.28                  | 11.20                     | 11.90                          |
|                                    | LV250W24CG-DALI-NX | 440*300*155         | 25         | 0.50                  | 12.50                     | 13.84                          |

## 9.Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

## 10.Ordering data

| Model No           | Item code |
|--------------------|-----------|
| LV30W24CG-DALI-NX  | 158590    |
| LV60W24CG-DALI-NX  | 158600    |
| LV100W24CG-DALI-NX | 158610    |
| LV150W24CG-DALI-NX | 158620    |
| LV250W24CG-DALI-NX | 158630    |

## 11.Revision history

| Date       | Revision | Remark          |
|------------|----------|-----------------|
| 2026.16.03 | V0.01    | Product release |
|            |          | .               |
|            |          |                 |