

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC35W75-400 DALI	75mA	0.09A	19.52W	4.05-18.00W	0.92	92.2%	54-240V	260V
	100mA	0.11A	25.53W	5.40-24.00W	0.94	94.0%	54-240V	260V
	125mA	0.14A	31.91W	6.75-30.00W	0.96	94.0%	54-240V	260V
	150mA	0.14A	32.12W	8.10-30.00W	0.96	93.4%	54-200V	260V
	175mA	0.16A	37.43W	9.45-35.00W	0.97	93.5%	54-200V	260V
	200mA	0.14A	32.18W	10.80-30.00W	0.96	93.2%	54-150V	260V
	225mA	0.16A	36.21W	12.15-33.75W	0.96	93.2%	54-150V	260V
	250mA	0.12A	27.14W	13.50-25.00W	0.95	92.1%	54-100V	260V
	275mA	0.13A	29.92W	14.85-27.50W	0.95	91.9%	54-100V	260V
	300mA	0.14A	32.67W	16.20-30.00W	0.96	91.8%	54-100V	260V
	325mA	0.15A	35.40W	17.55-32.50W	0.96	91.8%	54-100V	260V
	350mA	0.17A	38.08W	18.90-35.00W	0.97	91.9%	54-100V	260V
	375mA	0.16A	35.65W	20.25-32.62W	0.97	91.5%	54-87V	260V
	400mA	0.17A	38.19W	21.60-34.80W	0.97	91.1%	54-87V	260V

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

## 1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2 / Touch DIM
	Output Features	Non-Isolation
	IP Grade	IP20
	Insulation Class	Class I

Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Input Current	≤0.17A max
	Input Power	≤38.19W max
	Power Factor	≥0.97 (230VAC, full load)
	THD	≤8.5% (230VAC, full load)
	Standby Power Consumption	≤0.45W @ 230VAC(DIM to off )
	Inrush Current	≤8A/51us (230VAC, full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	24pcs/type A ;39pcs/type B ;62pcs/type C 39pcs/type A ;62pcs/type B ;100pcs/type C 48pcs/type A ;78pcs/type B ;125pcs/type C
Output	Output Voltage	54-240VDC
	No Load Voltage (Uout)	< 260VDC Max.
	Output Current	75-400mA (Factory set current of 75mA)
	Max. Output Power	35W
	Efficiency	≥94% (230VAC, full load@max current)
	Output LF current ripple (< 100 Hz)	<1% (Imax-Imin) / (Imax+Imin )
	Current Accuracy	±5%
	Output PstLM (at full load)	≤1
	Output SVM (at full load)	≤0.4
	Starting Time ( AC mode )	≤0.8S (230VAC, full load, by DALI system)
	Starting Time ( DC mode )	≤0.4S
	Switching over time ( AC/DC )	≤0.4S
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length: 20m,same port of DALI )
	PUSH-button	Max parallel connections qty for Push-dim 15
	DALI function	DALI dimming (Max. lead wire length: 300m ) logarithm or linear dimming curve selectable
	Dimming range	DALI dimming: 1%-100%
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC L/N to PE
	Leakage current	< 700μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+60°C
	Ts/Storage Temperature	-25....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa

Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5 <sup>□</sup> / 8-9mm
	SEC Wire preparation	0.5-1.5 <sup>□</sup> / 8-9mm
	DALI Wire preparation	0.5-1.5 <sup>□</sup> / 8-9mm
	Dimension	280*29.4*21mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/UKCA/CB
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-2-13:2014; IEC 61347-1:2015
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017;
	Performance	EN 62384
	DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part 251, 252, 253)
	Surge	L-N/1KV (L/N)-PE/2KV
Others	RoHS	2011/65/EU
	Life Time	50000h Tc=85°C
		75000h Tc=80°C
		100000h Tc=75°C
Warranty	5years , F.R. < 10000ppm	

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.  
3.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.

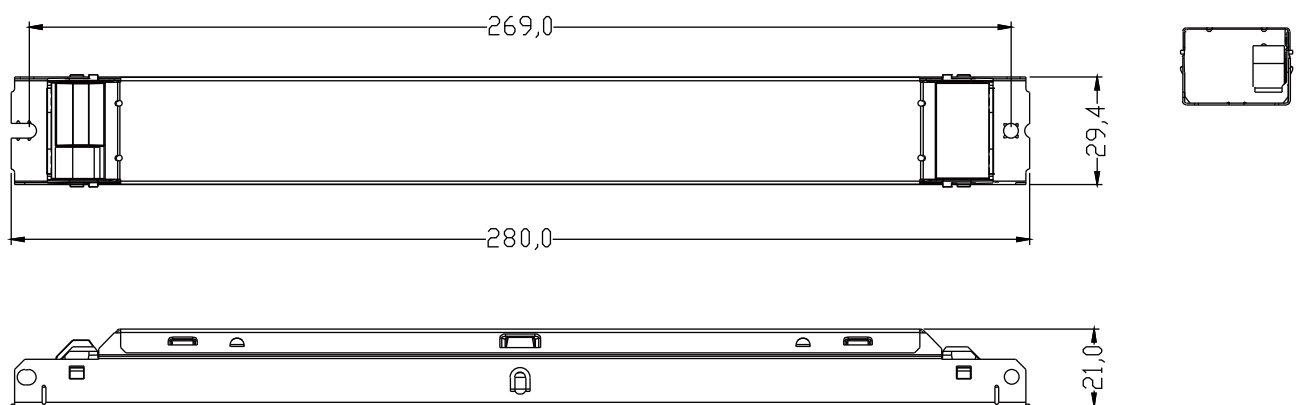
## 2. Label

<input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/> DA <input type="checkbox"/> DA 	 <b>KGP Electronics GmbH</b> Hueckstraße 19 DE-58511 Lüdenscheid	<b>LED Dimmable Driver</b> <b>LC35W75-400 DALI</b> Constant Current Type for operation with LED modules only Input Voltage:220-240VAC    I <sub>in</sub> : ≤ 0.17A Input Frequency:0/50-60Hz    Prange=4-35W Range of application    U <sub>out</sub> :260VDC Max.35W DC 180-280V    Tc:85°C Output:75-400mA 54-240VDC    Ta:60°C		<table border="1"> <thead> <tr> <th>Pout [W]</th> <th>Iout [mA]</th> <th>λ</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>Pout [W]</th> <th>Iout [mA]</th> <th>λ</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>18.0</td> <td>75</td> <td>0.92C</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>25.0</td> <td>250</td> <td>0.95</td> <td>-</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>24.0</td> <td>100</td> <td>0.94C</td> <td>-</td> <td>-</td> <td>-</td> <td>ON</td> <td>27.5</td> <td>275</td> <td>0.95</td> <td>ON</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>30.0</td> <td>125</td> <td>0.96</td> <td>-</td> <td>-</td> <td>ON</td> <td>-</td> <td>30.0</td> <td>300</td> <td>0.96</td> <td>ON</td> <td>-</td> <td>-</td> <td>ON</td> </tr> <tr> <td>30.0</td> <td>150</td> <td>0.96</td> <td>-</td> <td>-</td> <td>ON</td> <td>ON</td> <td>32.5</td> <td>325</td> <td>0.96</td> <td>ON</td> <td>-</td> <td>ON</td> <td>-</td> </tr> <tr> <td>35.0</td> <td>175</td> <td>0.97</td> <td>-</td> <td>ON</td> <td>-</td> <td>-</td> <td>35.0</td> <td>350</td> <td>0.97</td> <td>ON</td> <td>-</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>30.0</td> <td>200</td> <td>0.96</td> <td>-</td> <td>ON</td> <td>-</td> <td>ON</td> <td>32.6</td> <td>375</td> <td>0.97</td> <td>ON</td> <td>ON</td> <td>-</td> <td>-</td> </tr> <tr> <td>33.7</td> <td>225</td> <td>0.96</td> <td>-</td> <td>ON</td> <td>ON</td> <td>-</td> <td>34.8</td> <td>400</td> <td>0.97</td> <td>ON</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> </tbody> </table>	Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4	18.0	75	0.92C	-	-	-	-	25.0	250	0.95	-	ON	ON	ON	24.0	100	0.94C	-	-	-	ON	27.5	275	0.95	ON	-	-	-	30.0	125	0.96	-	-	ON	-	30.0	300	0.96	ON	-	-	ON	30.0	150	0.96	-	-	ON	ON	32.5	325	0.96	ON	-	ON	-	35.0	175	0.97	-	ON	-	-	35.0	350	0.97	ON	-	ON	ON	30.0	200	0.96	-	ON	-	ON	32.6	375	0.97	ON	ON	-	-	33.7	225	0.96	-	ON	ON	-	34.8	400	0.97	ON	ON	-	ON	
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### 3. Output Current Setting

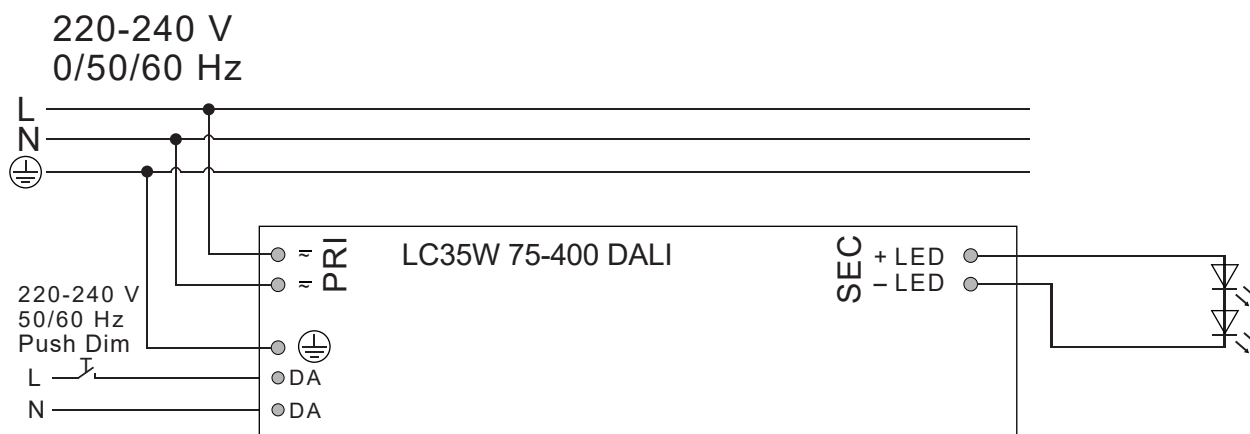
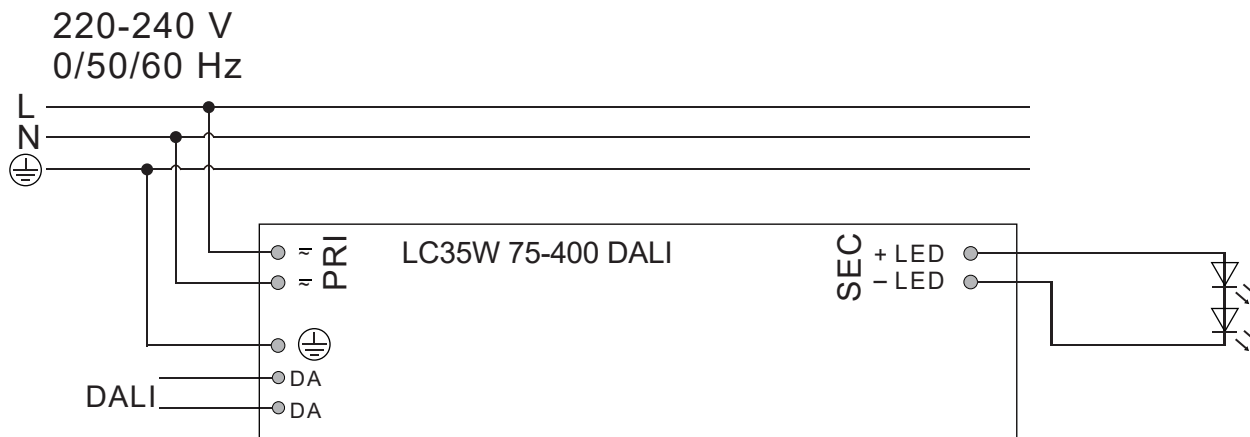
Output Current	1	2	3	4
75mA	-	-	-	-
100mA	-	-	-	ON
125mA	-	-	ON	-
150mA	-	-	ON	ON
175mA	-	ON	-	-
200mA	-	ON	-	ON
225mA	-	ON	ON	-
250mA	-	ON	ON	ON
275mA	ON	-	-	-
300mA	ON	-	-	ON
325mA	ON	-	ON	-
350mA	ON	-	ON	ON
375mA	ON	ON	-	-
400mA	ON	ON	-	ON

### 4. Dimension (Unit: mm)

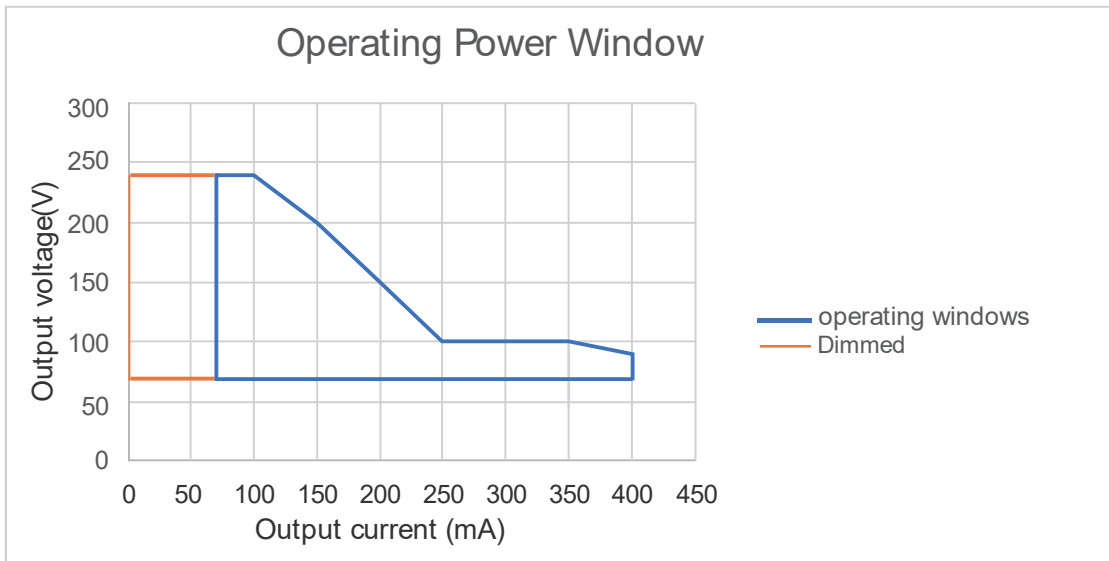


### 5. Installation / wiring

Circuit diagram



### 6. Output Power Window



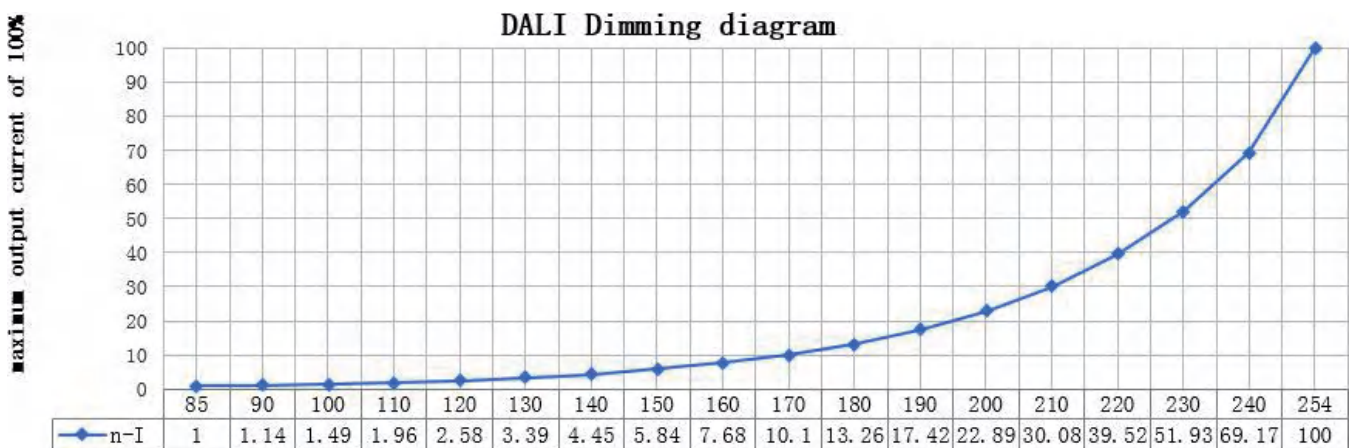
### 7. DALI dimming curve

formula for DALI dimming.

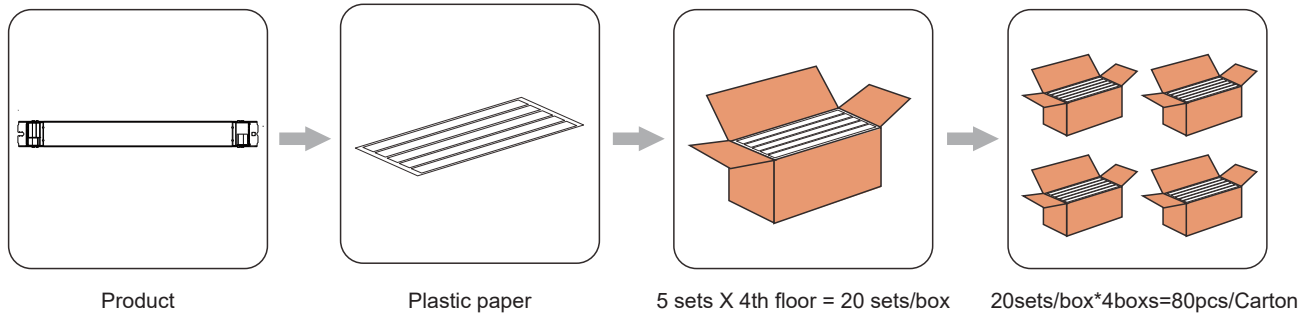
$$X(n) = 10^{\left\{ \frac{(n-1)}{(253/3)} - 1 \right\}}$$

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

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



### 8. Packing information



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
325*303*213	80	0.164	13.12	14.08

### 9. Push Dim :

#### 9.1 On / off:

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

#### 9.2 Power-on memory function

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the brightness during dimming is not memorized)

#### 9.3 Light on/off

If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600mS.

### 9.4 PUSH Dimming

Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time. After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

### 9.5 Forced synchronization

Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

### 9.6 PUSH Dimming rate

Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S, and it can also be changed by MAGIC or production software.

## 10. REVISION HISTORY

Date	Revision	Remark
2023.11.02	V0.01	update images, Packing information