



## CC42W300-1050CG DALI

**Constant Current Dimmable Driver**

**Model: CC42W300-1050CG DALI**



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC42W300-1050CG DALI	300mA	0.10A	15W	3-12.6W	0.7C	82%	10-42V	55V
	350mA	0.11A	18W	3.5-14.7W	0.75C	84%	10-42V	55V
	400mA	0.12A	20W	4.0-16.8W	0.80C	86%	10-42V	55V
	450mA	0.13A	22W	4.5-18.9W	0.85C	86%	10-42V	55V
	500mA	0.14A	25W	5.0-21W	0.88C	86%	10-42V	55V
	550mA	0.15A	28W	5.5-23.1W	0.90C	87%	10-42V	55V
	600mA	0.16A	30W	6.0-25.2W	0.92C	87%	10-42V	55V
	650mA	0.17A	31W	6.5-27.3W		87%	10-42V	55V
	700mA	0.18A	34W	7.0-29.4W		88%	10-42V	55V
	750mA	0.19A	36W	7.5-31.5W		88%	10-42V	55V
	800mA	0.20A	39W	8.0-33.6W		88%	10-42V	55V
	850mA	0.21A	41W	8.5-34.0W	0.95	88%	10-40V	55V
	900mA	0.22A	43W	9.0-36W		88%	10-40V	55V
	950mA	0.23A	45W	9.5-38W		88%	10-40V	55V
	1000mA	0.24A	48W	10-40W		88%	10-40V	55V
	1050mA	0.25A	50W	10.5-42W		88%	10-40V	55V

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

### 1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI 2
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC@300-1050mA
	Range of Input Voltage	176-264VAC or 176-280VDC@300-1050mA
	Frequency	50/60Hz
	Input Current	≤0.25A (230VAC, full load)
	Input Power	≤50W (230VAC, full load)


	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤1.5W @230VAC (Dim to off)
	Inrush Current:	≤18A/2.8us (230VAC, full load)
	Connected quantity of 16A Breaker	27pcs/type B ;44pcs / type C @ 230Vac
Output	Output Voltage Range	10-42VDC@300-800mA
		10-40VDC@850-1050mA
	No Load Voltage	55VDC Max.
	Output Current	300 -1050mA
	Max. Output Power	42W
	Efficiency	≥88% (230VAC, full load)
	Current Ripple	±5% (230VAC, full load)
	Current Accuracy	±5%
Control Method	Started Delay Time	≤0.5S (230VAC,full load)
	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length: 20m,same port of DALI)
	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable
Protection	Dimming range	DALI dimming: 1%-100% , Dim to off .
	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
Environment	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
	Ta/Operation Temperature	-25....+45°C @36-42W
		-25....+50°C @<36W
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	90°C
Humidity	10%....90%RH	
Construction	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5 <sup>□</sup>
	SEC Wire preparation	0.5-1.5 <sup>□</sup>
Standards	Dimension	118.5*67*22mm (L*W*H)
	Certification	complied to CE ENEC
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,E N62493:2015
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009

	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 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. Output Current Setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON


### 3. Label



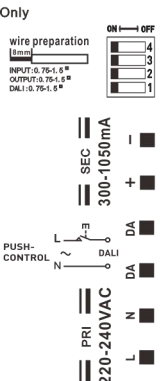
KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**LED Dimmable Driver**  
**MODEL: CC42W300-1050CG DALI**  
 PR I : 220-240VAC 50/60Hz Max.0.25A  
 SEC: No load:55VDC Max.42W  
 Constant Current Type for LED Only  
 tc:90°C

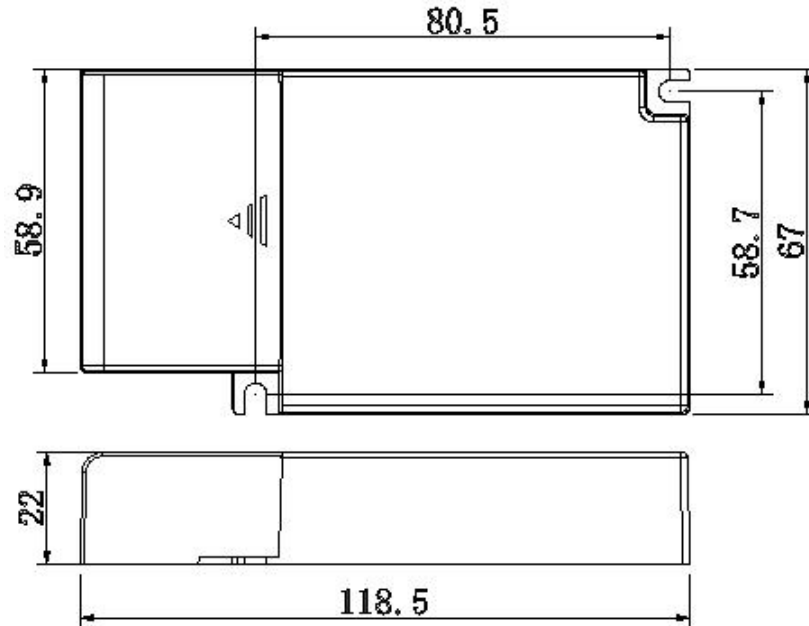
I <sub>in</sub> (A)	λ	U <sub>o</sub> (VDC)	P <sub>o</sub> (W)	I <sub>o</sub> (mA)	1	2	3	4	t <sub>a</sub> (°C)
0.10	0.70C	12.6	300	-	-	-	-	-	50
0.11	0.75C	14.7	350	-	-	-	ON	-	
0.12	0.80C	16.8	400	-	-	ON	-	-	
0.13	0.85C	18.9	450	-	-	ON	ON	-	
0.14	0.88C	21	500	-	ON	-	-	-	
0.15	0.90C	23.1	550	-	ON	-	-	-	
0.16		25.2	600	-	ON	ON	-	-	
0.17		27.3	650	-	ON	ON	ON	-	
0.18		29.4	700	ON	-	-	-	-	
0.19		31.5	750	ON	-	-	ON	-	
0.20		33.6	800	ON	-	ON	-	-	
0.21		34	850	ON	-	ON	ON	-	
0.22		36	900	ON	ON	-	-	-	
0.23		38	950	ON	ON	-	ON	-	
0.24		40	1000	ON	ON	ON	-	-	
0.25		42	1050	ON	ON	ON	ON	-	

**SELV** 

wire preparation  
 INPUT: 0.76-1.6\*  
 OUTPUT: 0.5-1.5\*  
 DALI: 0.76-1.6\*



## 4. Dimension (Unit: mm)



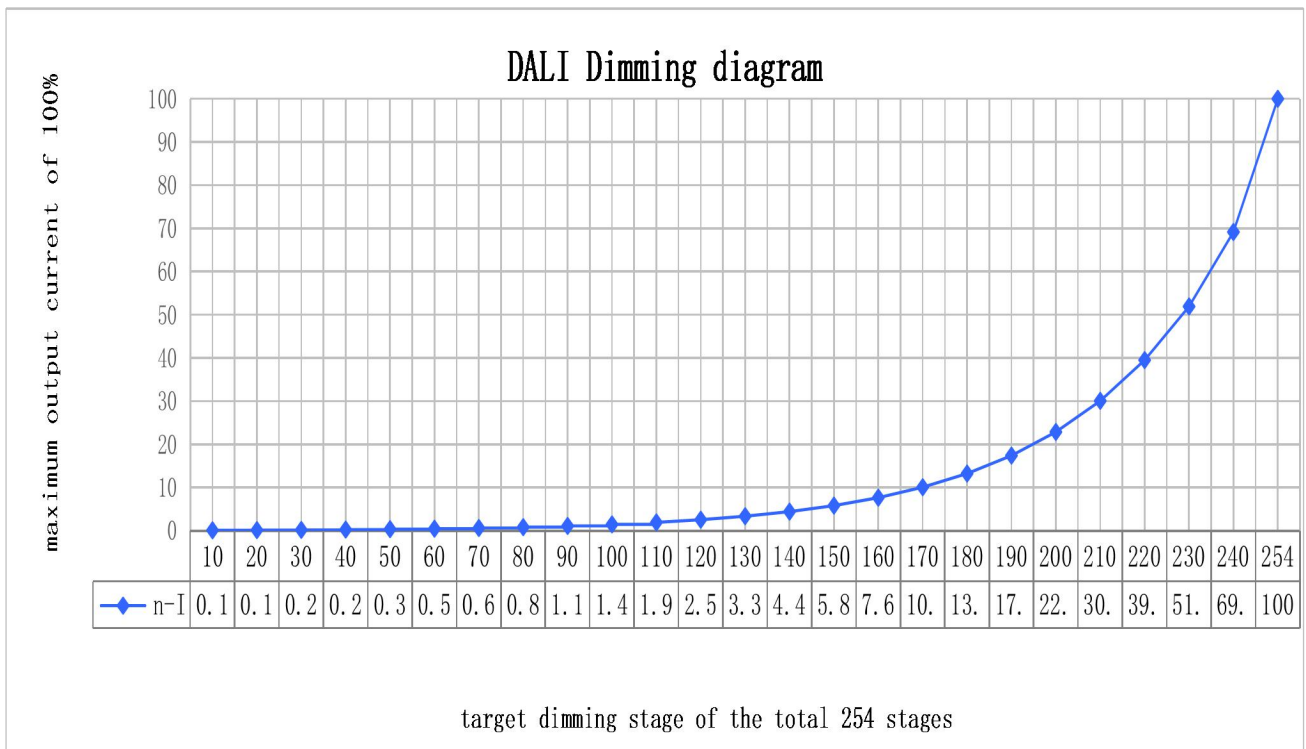
## 5. DALI dimming curve

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.

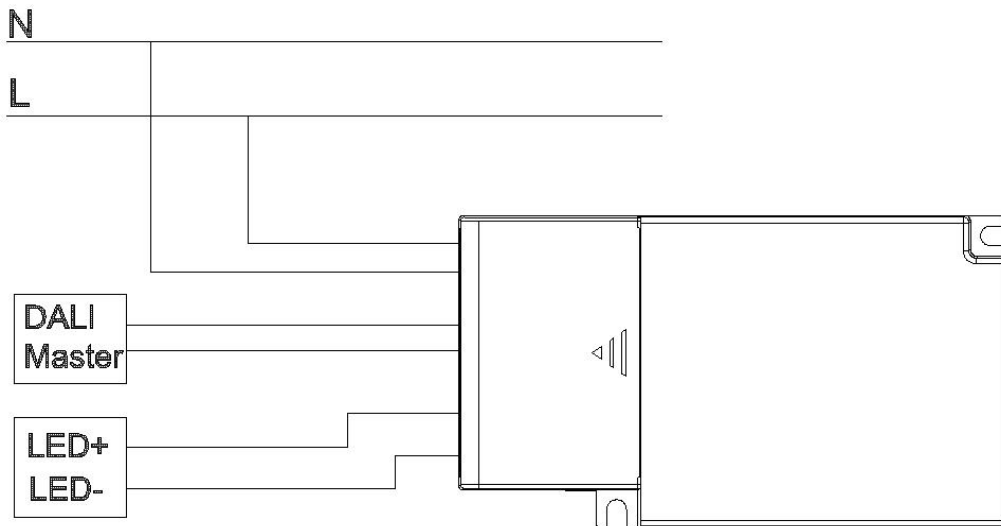
X(n) means the percent of the maximum output current.



### 6. Packing information

packing way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
With white box and manual	450*240*200	65	0.16	10.4	10.92
Without white box and manual		85	0.15	12.41	13.11

### 7. Wiring Diagram



### 8. 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.)