



Constant Voltage Dimmable Driver

Model: FV100W24CG DALI



Model	Input Current	Input Power	PF (230V Full Load)	Output Power Range	Output Voltage	Output Current	Efficiency (230V Full Load)
FV100W24CG DALI	≤0.55A	≤115W	≥0.95	0-100.8W	24V	0-4200mA	≥91%

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

1. Parameters

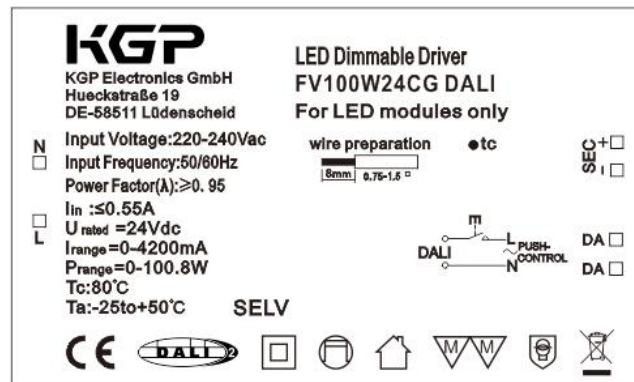
category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	DALI-2
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Range of DC Input Voltage	230-280VDC
	Frequency	50/60Hz
	Input Current	≤0.55A
	Input Power	≤115W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC (DIM to off)
	Inrush Current	≤60A/300us (230VAC, full load)
Connected quantity of 16A Breaker	8pcs/type B ; 13pcs/type C @ 230Vac	
Output	Output Voltage	24VDC+/-3%
	No Load Voltage	25VDC Max.
	Line Regulation	±1%
	Load Regulation	±2%
	Output Current	0 -4200mA
	Max. Output Power	100.8W
	Efficiency	≥91% (230VAC, full load)
	Voltage Ripple	2% (Vmax-Vmin) / (Vmax+Vmin)
	Current Accuracy	N/A
Started Delay Time	≤0.7S (230VAC, full load)	
Control	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire

Method		length: 20m,same port of DALI)
	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or 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	I/P to O/P,3KVac/5mA/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250µA
Environment	Ta/Operation Temperature	-25....+50°C
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	80°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	terminal block
	Installation	Independent
	PRI Wire preparation	0.75-1.5 [□]
	SEC Wire preparation	0.75-1.5 [□]
	Dimension	190*65*22mm (L*W*H)
Standards	Certification	ENEC/CE/SAA
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,E N62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014,EN61 000-3-3:2013,EN61547:2009
	Performance	EN62384,IEC62386-101{ed2.0}-2014, EN 62386-207{ed1.0}-2009, BS EN 62386-102{ed2.0}-2014
	Surge	L-N/2KV
Others	RoHS	2011/65/EU
	MTBF	≥250KHours,Ta=25°C (MIL-HDBK-217F)
	Life Time	50000h @Ta/ Tc
	Warranty	5years , F.R. < 10000ppm

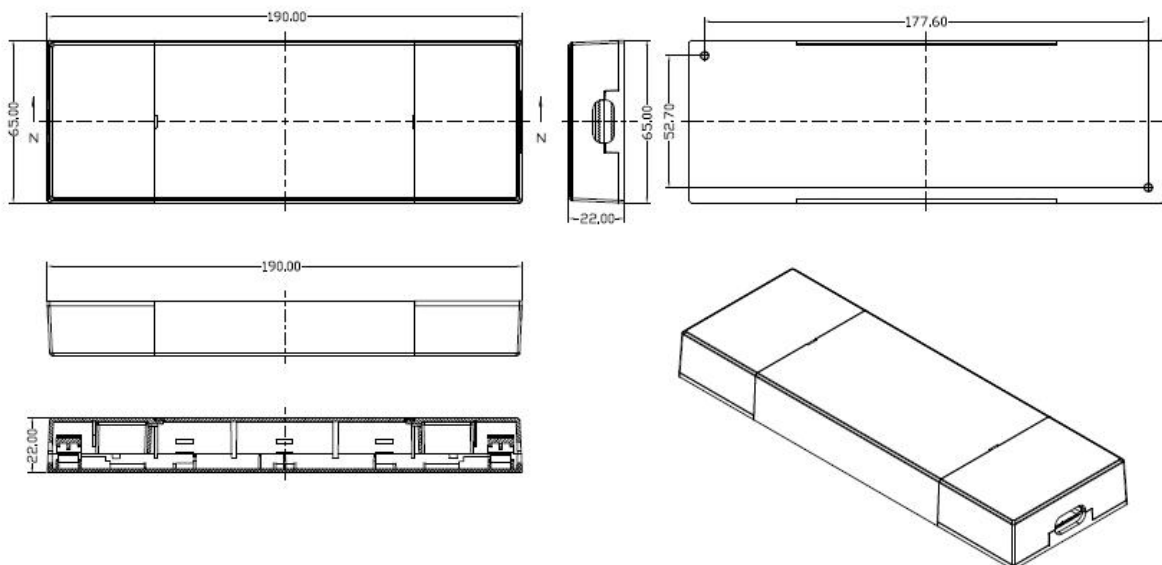
Remark:

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

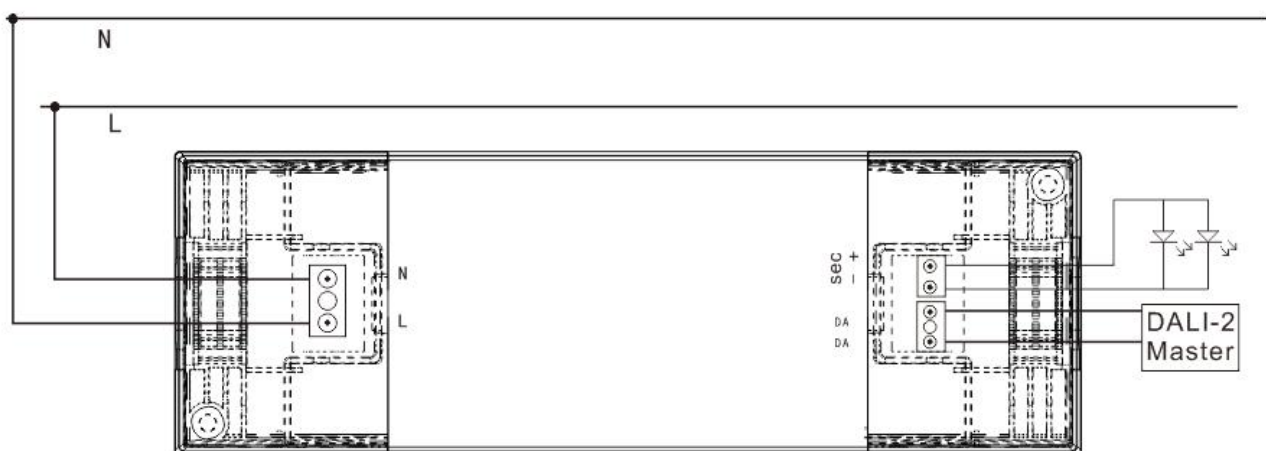
2. Label

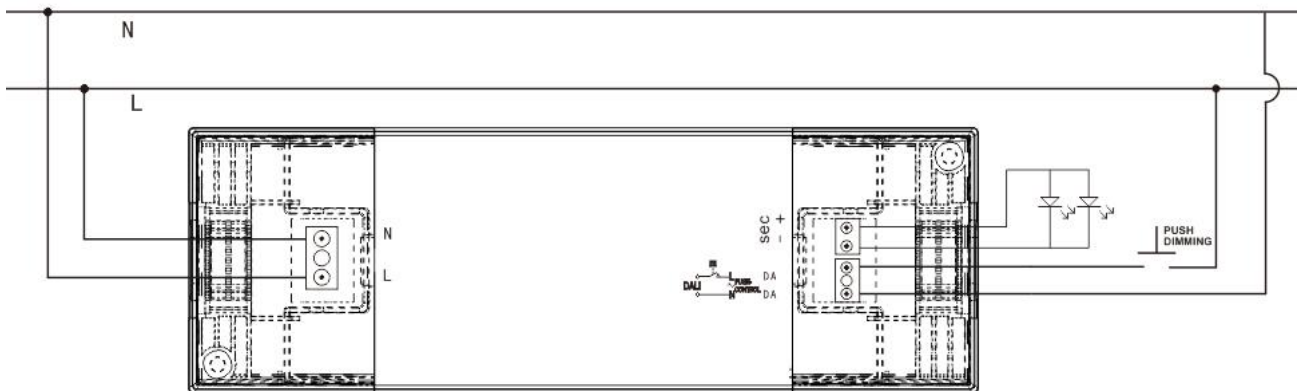


3. Dimension (Unit: mm)



4. Wiring Diagram





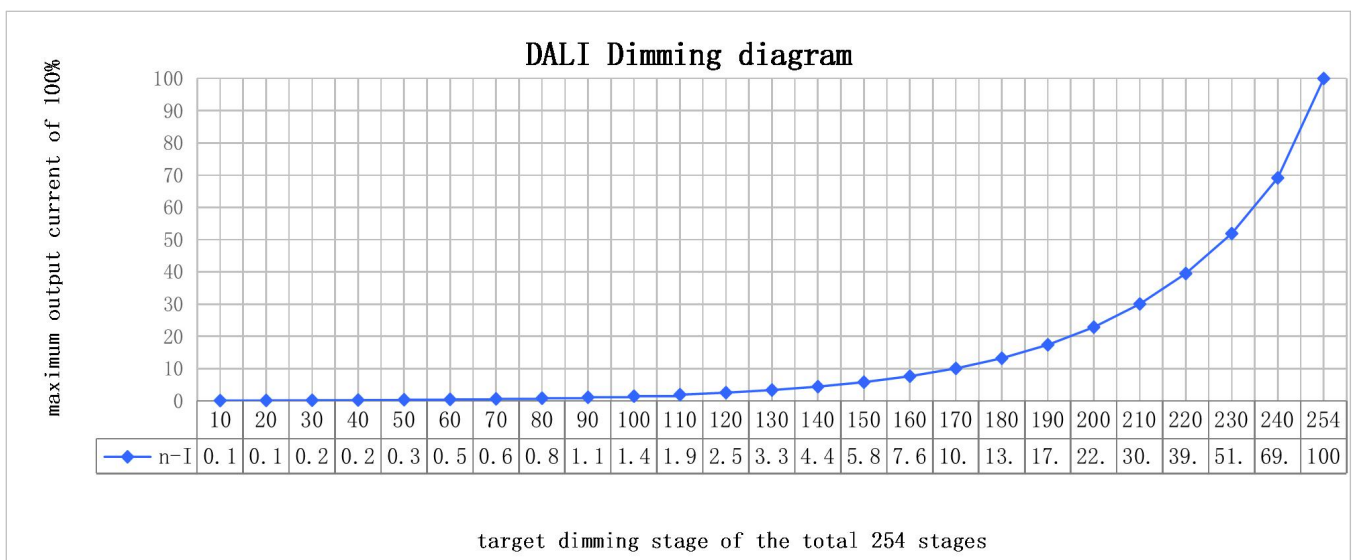
5. Dimming curve

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	40	T.B.D.	T.B.D.	T.B.D.
Without white box and manual		40	T.B.D.	T.B.D.	T.B.D.