



LED Driver 24V 100W DALI/Push dimmbar

Artikel-Nr. EGD100-24VF6/24

Dimensionen: 337x30x18.2 mm



Features

- . EU standard input voltage 220-240VAC
- . DALI-2.0 DT6 dimming
- . Built-in push dimming function
- . Dimming range 1-100%
- . Protections: Short circuit / Over temperature/ Over voltage
- . Adopt plastic case and internal glue potting
- . Built in lightning protection device can meet the requirements of 1KV
- . High efficiency LED driver: the maximum efficiency is greater than 93%



Description :

EGDL100 series is an indoor constant voltage LED DALI power supply. Its input voltage range is 198-264Vac, with the high efficiency up to 93%, working in the temperature range of -20°C~+45°C ambient temperature range. It has ultra-high power factor, low THD, low standby power consumption, full protection function, which not only greatly improves the reliability of the product, but also ensures the life cycle of product. This series is designed for LED lighting, suitable in indoor lighting use. Comply with Dali 2.0 standard (IEC 62386-101 , 102 , 207 , 209) . Innovative thermal management technology, intelligent protection of power supply life.

Model

Model	Rated output voltage	Rated output current	Max. output power	Output voltage tolerance	Total harmonic distortion (Typ.)	Power factor (Typ.)	Efficiency (Typ.)
EGDL100-24VF6	24V	0-4.16A	100W	±5%	5%	0.97	93%

Remark: All parameters NOT specially mentioned are measured at 230VAC input, full load and 25 °C of ambient temperature
PUSH dimming

Dimming: Long-time press

Push on/off: Short-time press

Dimming memory: when the light is switched off and turn on again, the light will return to the previously adjusted brightness level

Each long press, the brightness will be adjusted in the opposite direction

Long-time press for more than 15s is the synchronization function, and all devices are adjusted to 50%.

Long-time press and hold, the dimming brightness down again.

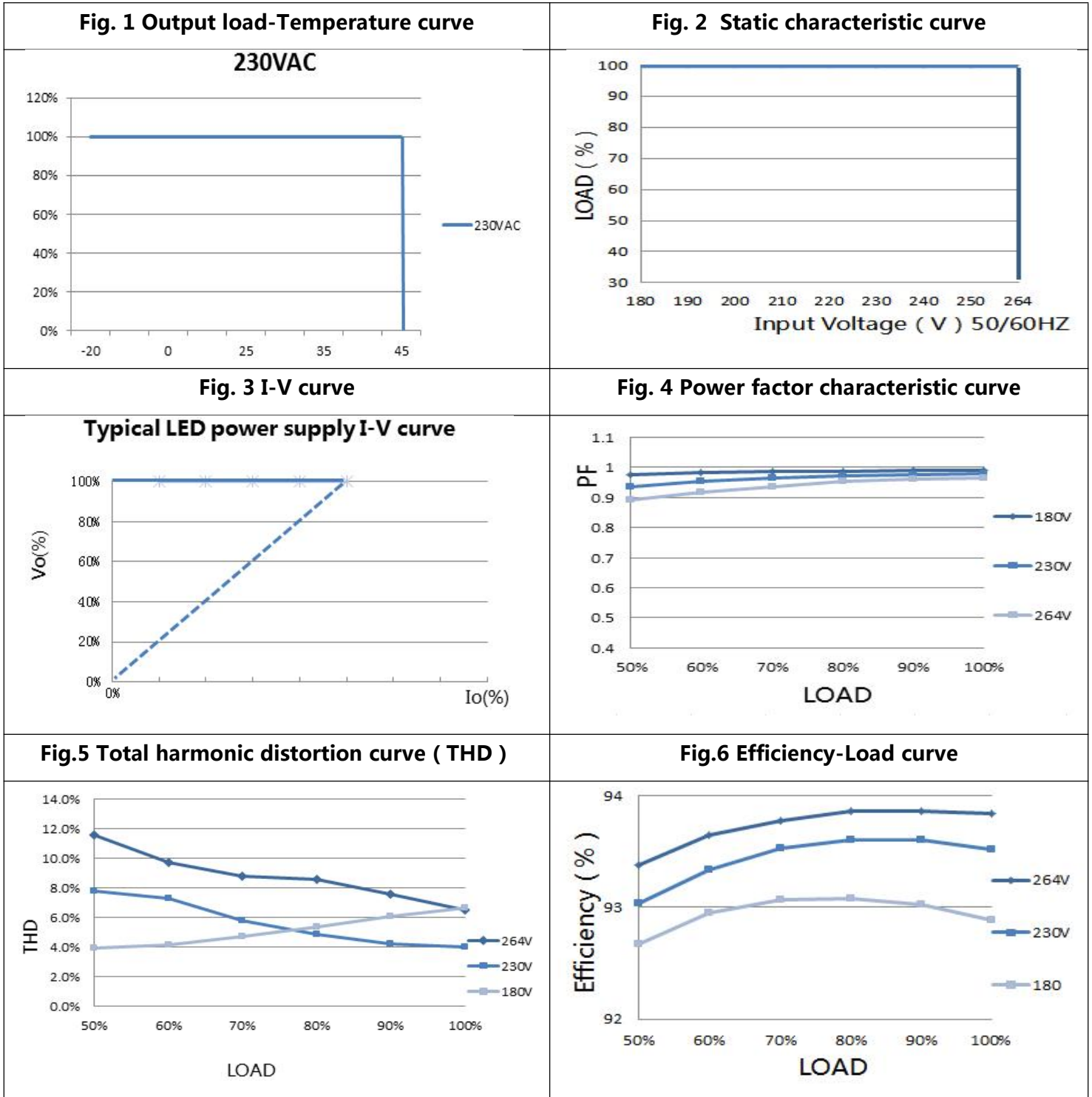
Input

Parameter	Min. value	Typical value	Max. value	Note
Rated input voltage	220 Vac		240Vac	The derating curve is shown in the figure
Input voltage	198 Vac		264Vac	
Input frequency	47Hz		63Hz	
Max. Input current			0.7A	
Input inrush current			60A	230Vac/50Hz , Cold Start
Power factor	0.96	0.97		230Vac/50Hz , Cold Start
Total harmonic input		4%	5%	230Vac , Full Load
Leakage current			0.7mA	230Vac , Full Load
Stand-by power consumption		0.4W	0.5W	230Vac/50Hz , Full Load

Output

Parameter	EG DL100-24VF6	Note
Rated output voltage	24.0VDC	
Rated output current	4.16A	
Output current	0.416-4.16A	
Rated output power	100W	
Rated output efficiency	93%	230Vac
Output voltage tolerance	±5%	
Output voltage ripple (PK-PK)	±3%	Full load (Test under 20M bandwidth)
Output current ripple (PK-PK)	---	
Rise time	100mS	230Vac
Startup time	500mS	230Vac
Line regulation	±1%	Full load
Load regulation	±1%	

Characteristic curve



Protection

Parameter		Conditions	Note
Protection	Over load	1.1-1.6 times rated load	auto-recovery when overload removed
	Short circuit	Short circuit power $\leq 0.5W$	Hiccup mode, auto-recovery after short circuit removed
	Over voltage	1.5 times of rated output voltage	Turn off the input voltage and recover after restart
	Over temperature	110°C	Hiccup mode, auto-recovery after after the temperature returns to normal

Environment Requirement

Parameter	Min.	Typ.	Max.	Note
Working temp.	-20°C	25°C	+45°C	See Fig.2
Storage temp.	-40°C	25°C	+85°C	
Working humidity	10%RH		90%RH	
Storage humidity	5%RH		95%RH	
IP grade			IP20	
Cooling mode	Natural cooling			

Safety&EMC Standard

Certificate	Safety standards	Certification	Note
UL/CUL	---		
TUV	EN61347-1:2015 EN 61347-2-13:2014+A1 EN62493:2015		
SAA	AS/NZS 61347.2.13		
CCC	---		

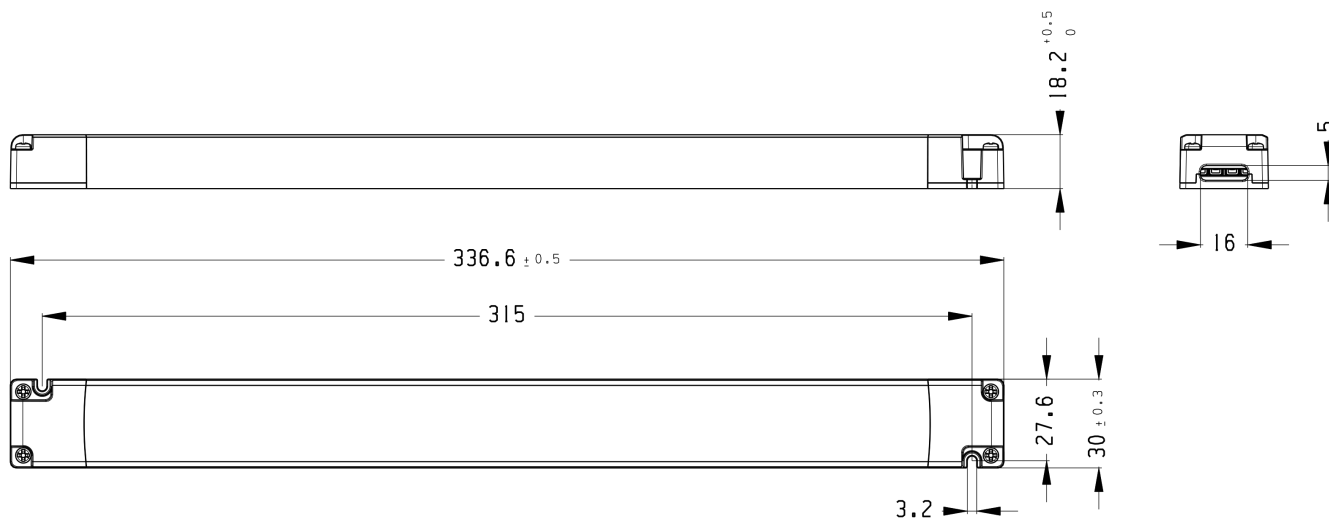
CE		EN 61347-2-13:2014 +A1 EN61347-1:2015	
Safety test		Technical indexes	Note
Dielectric strength	Input to output	3750Vac/5mA Max/60s	Reinforced insulation, no breakdown, no flashover
	Primary to ground	---	Basic insulation, no breakdown, no flashover
	Secondary to ground	---	Functional insulation, no breakdown, no flashover
Insulation resistance	Input to output	≥10MΩ	Test voltage : 500Vdc
Grounding resistance		---	25A/1min
Leakage current		≤0.75mA	264Vac
EMI/EMS item		Standards	Basis
Conduction CE		EN55015	
Radiation RE		EN55015	
Harmonics		EN IEC 61000-3-2	Class C

Others

Parameters	Condition	Note
Lifetime	30,000 hours	230Vac , Full load, TC. 75°C
MTBF	200,000 hours	230Vac , Full load, 25°C(MIL-HDBK-217F)
TC	85°C	

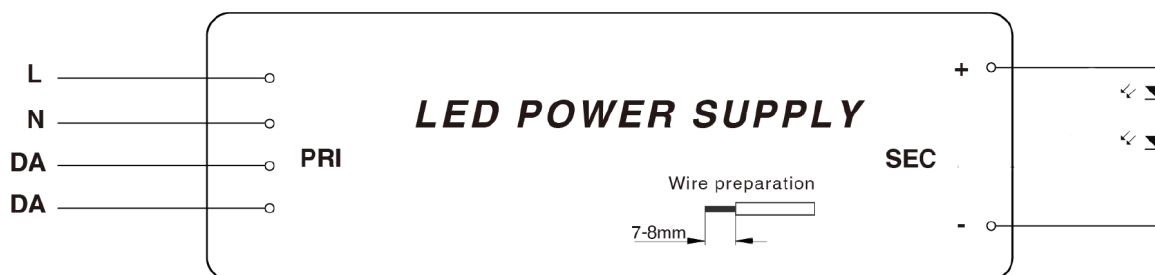
Weight	220g	
Dimensions	336.6mm * 30mm * 18.2mm	L x W x H

Mechanical Specification (Unit : mm)

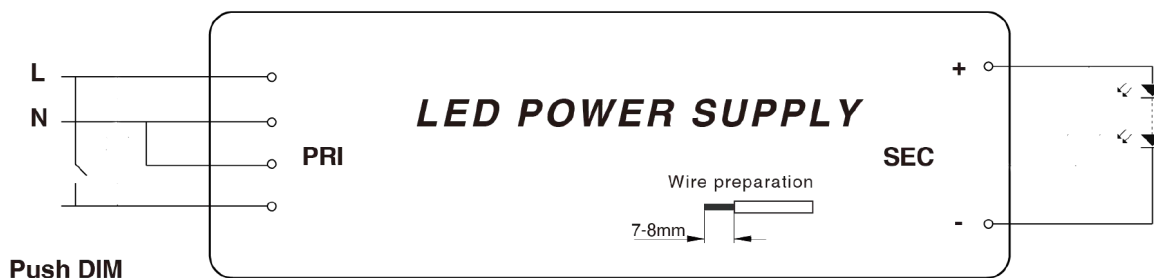


Dimming Connection Diagram

The DALI Wiring Diagram



The PUSH Dimming Wiring Diagram



Remark :

AC input cable	Terminal + H05VVH2-F 2*0.75mm ²
DC output cable	Terminal + H05VVH2-F 2*1.0mm ²