

150W DALI+PUSH Dimming power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: $\geq 91\%$ (Typ.)
- 5 years warranty
- Support DALI-2, Push Dimming

Applications

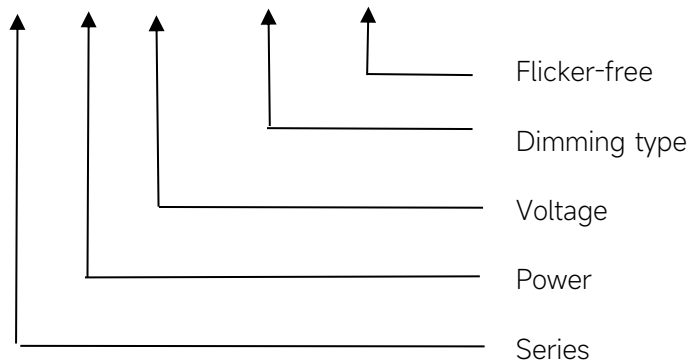
- LED strips

◆ Description

LS-150-24 DALI-2 LI is a 150W constant voltage LED driver that operates from 176-264Vac input with 24V output voltage. With it's compact dimensions from 290 x 45 x 30.5mm it is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-150-24 DALI-2 LI



◆ Specification

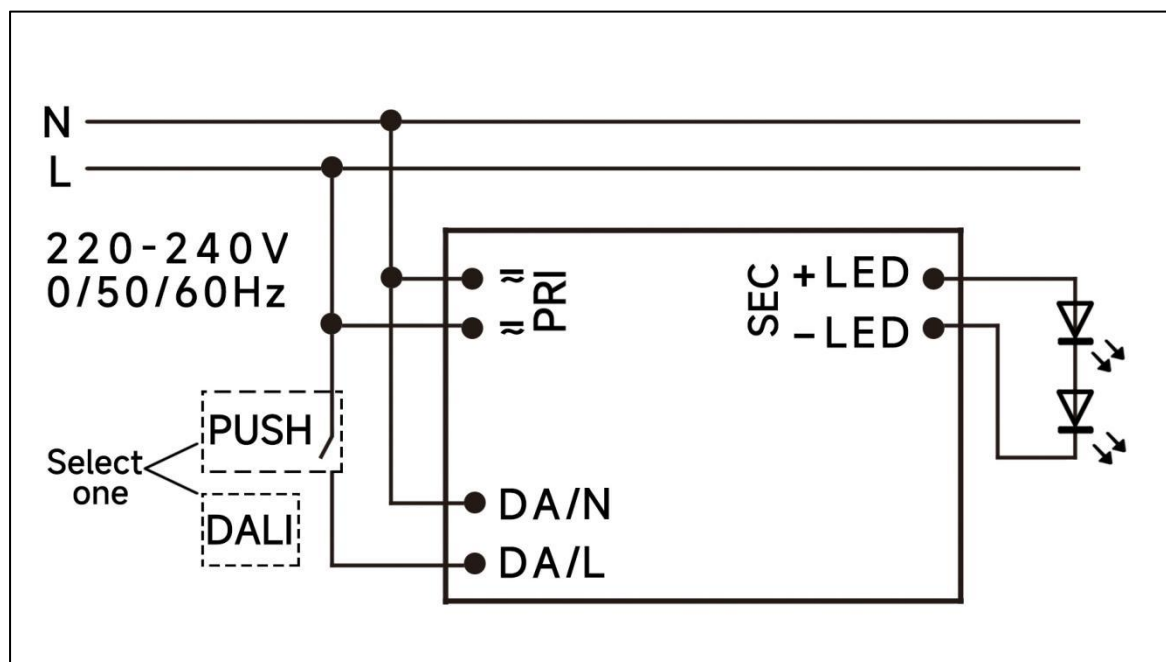
Output	Constant Voltage	24VDC
	Current Range	0-6.25A
	Voltage Accuracy	±3.5%
	Output HF current ripple(≥1KHz)	±1%
	Output LF current ripple(≤120Hz)	±1%
	SVM	≤0.4@Full Load
	P _{st}	≤1@Full Load
	Efficiency(Typ.)	≥91%
Input	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	Rated input voltage(DC)	176-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
	Power Factor	>0.95
	Input Current max	1A MAX. @Full Load,198VAC
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	Standby Power	≤0.5W
	Network standby power	≤0.5W
	THD (Typ.)	< 10% @220-240VAC, Full load
Dimming	Dimming	YES
	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push
	Dimming depth	1%
	Dimming current range	1-100%
Protection	Over Load Protection	105-150% rated output power YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	-20°C...+45°C
	Humidity	20%-90%RH
	T _c	85°C
	Storage Temperature	-20°C...+60°C
	Life time	≥50000h@T _c =85°C, full load
Surface	Dimension	290 x 45 x 30.5mm(LXWXH)mm
standards	EN 61347-1; EN61347-2-13; EN62384	

Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.	

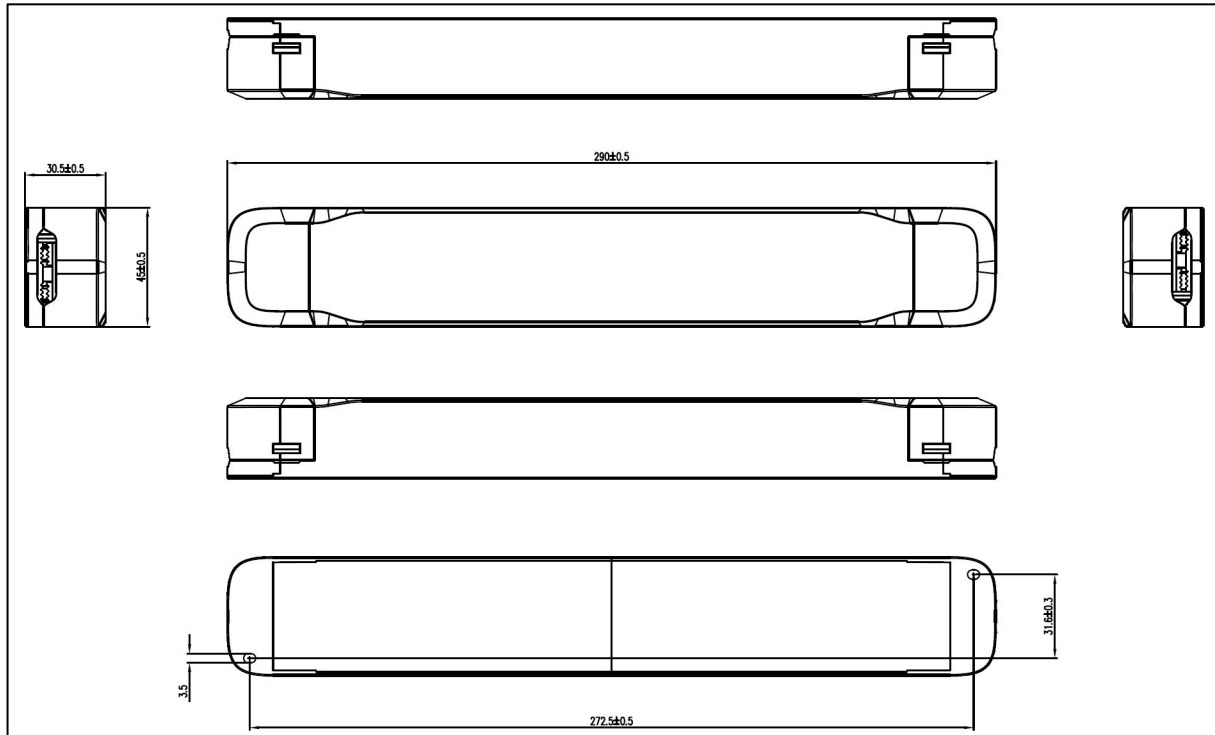
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
47A	428μs	3pcs	6pcs	7pcs	6pcs	10pcs	12pcs

◆ Wiring diagram



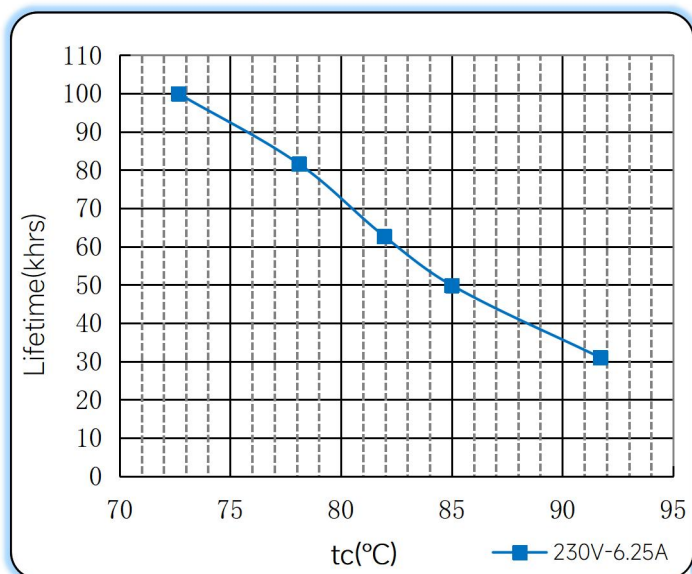
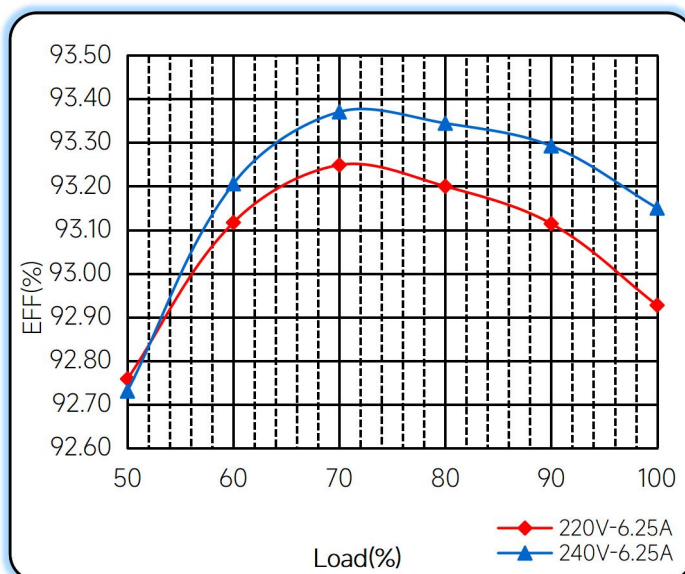
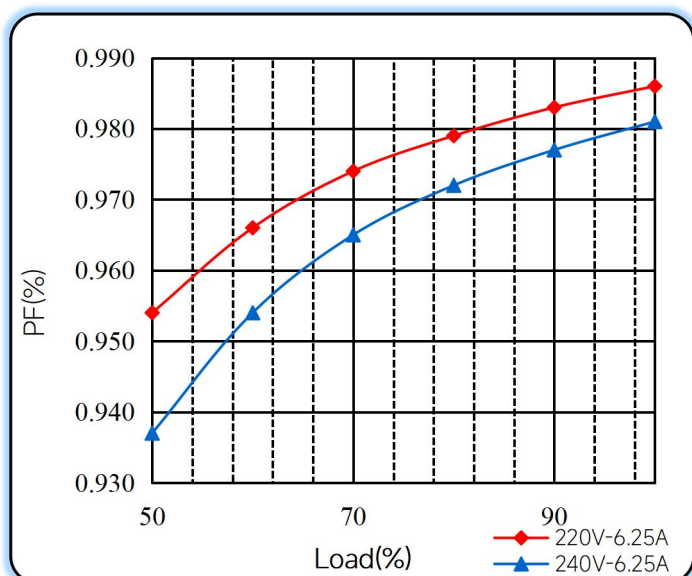
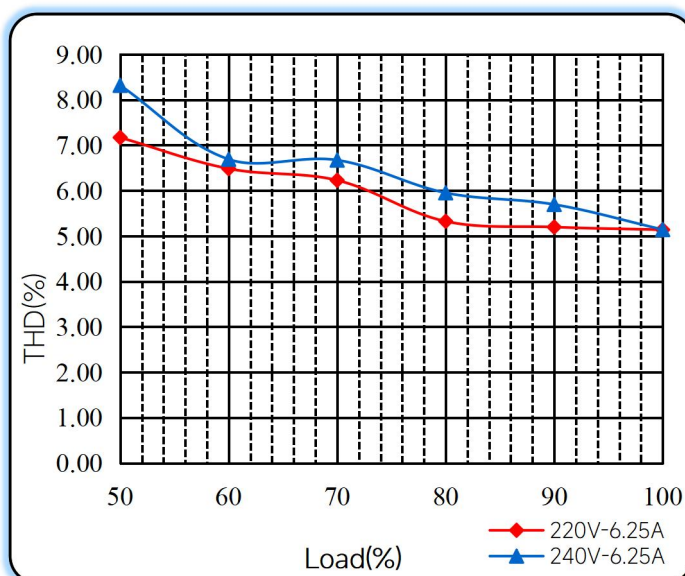
◆ 2D diagram



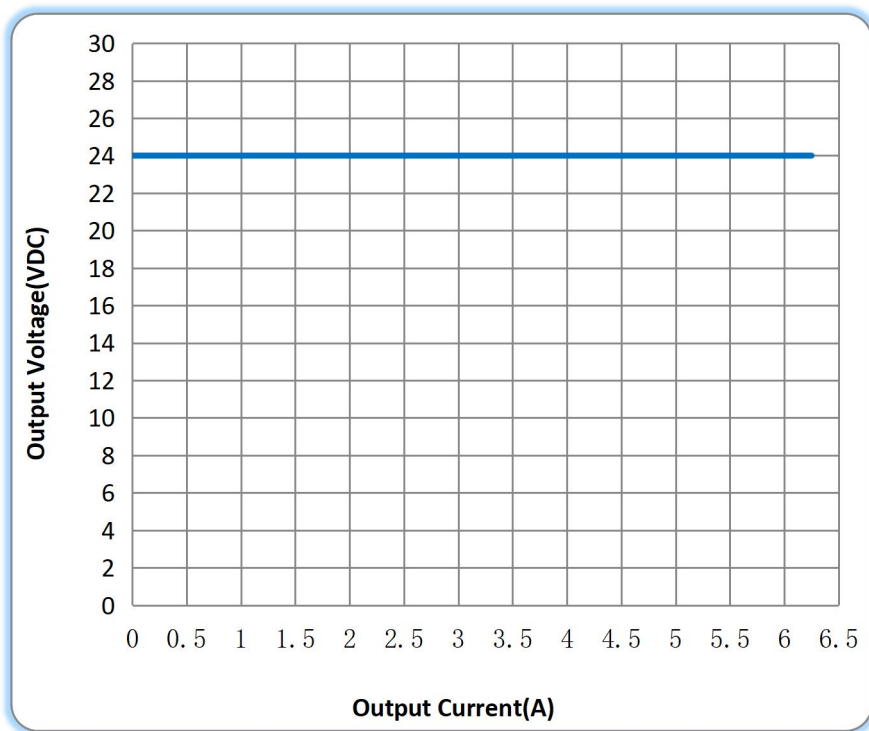
Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-150-24 DALI-2 LI

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/02/15
Efficiency	≥89%	≥91%	B	2022/11/09
Protection	OVP	OTP	B	2022/11/09

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Manual