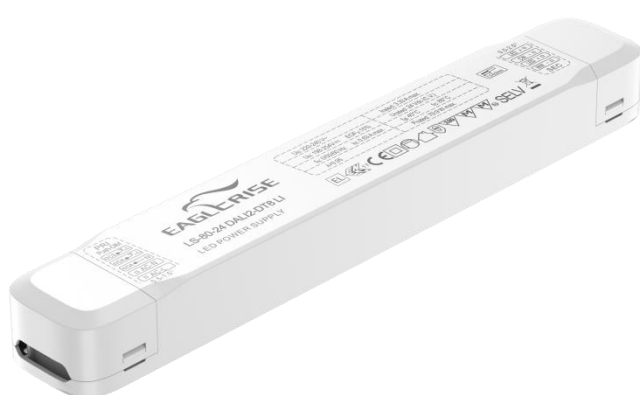


80W DALI+PUSH Dimming power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor > 0.9
- Efficiency ≥86%
- 5 years warranty
- Support DALI-2, Push Dimming
- IP20

Applications

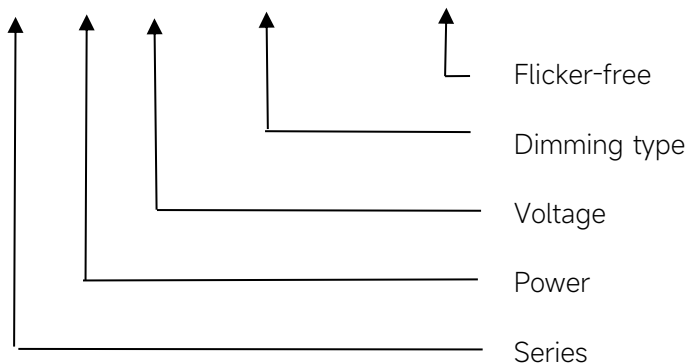
- LED strips

◆ Description

LS-80-24 DALI-2-DT8 LI is an 80W constant Voltage LED driver that operates from 176-264Vac input with 24V output voltage. With its compact dimensions from 340 x 45 x 30.5 mm 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-80-24 DALI-2-DT8 LI



◆ Specification

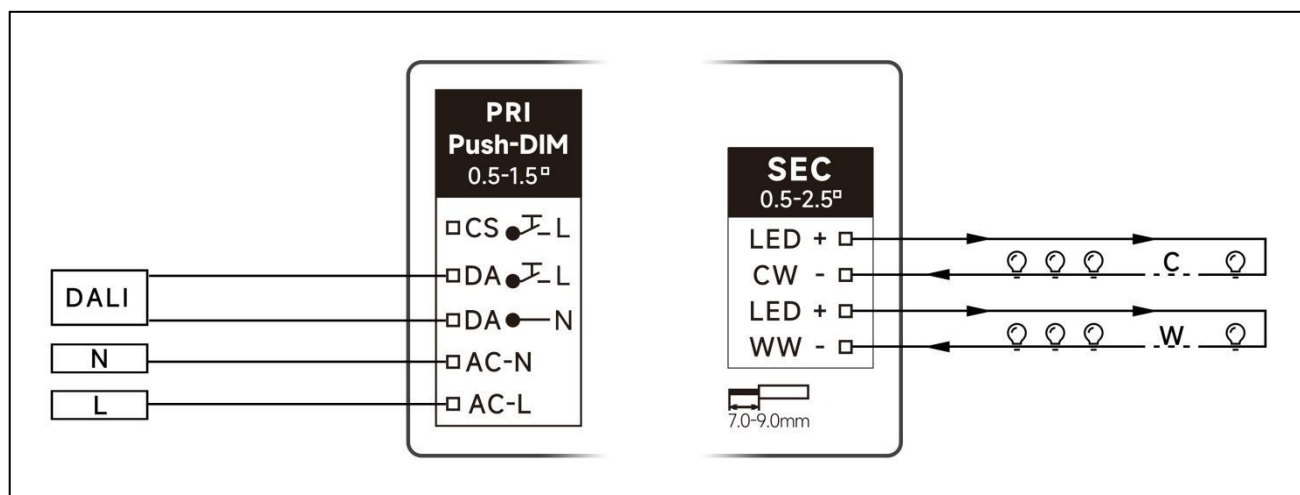
Output	Constant Voltage	24VDC
	Current Range	0-3.33A
	Voltage Accuracy	±5%
	Output HF current ripple(≥1KHz)	±1%
	Output LF current ripple(≤120Hz)	±1%
	SVM	≤0.4@Full Load
	Pst	≤1@Full Load
Input	Efficiency(Typ.)	86%
	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	Rated input voltage(DC)	176-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
	Power Factor	0.9
	Input Current max	0.63A MAX
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	Standby Power	≤0.5W
	Network standby power	≤0.5W
Dimming	THD (Typ.)	<15%
	Dimming	YES
	Dimming mode	DALI-2 IEC 62386-101,102,207,209 & Push Dimming (Corridor Function)
	Dimming depth	1%
Protection	Dimming current range	1-100%
	Over Load Protection	105-150% rated output power YES/Auto Resume
	Over Voltage Protection	> 25.2VDC 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
	Tc	85°C
	Storage Temperature	-20°C~+80°C
	Life time	> 50000h@Tc=70°C
Surface	Dimension	340 x 45 x 30.5 mm

standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;	
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. 4.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on the fixture.	

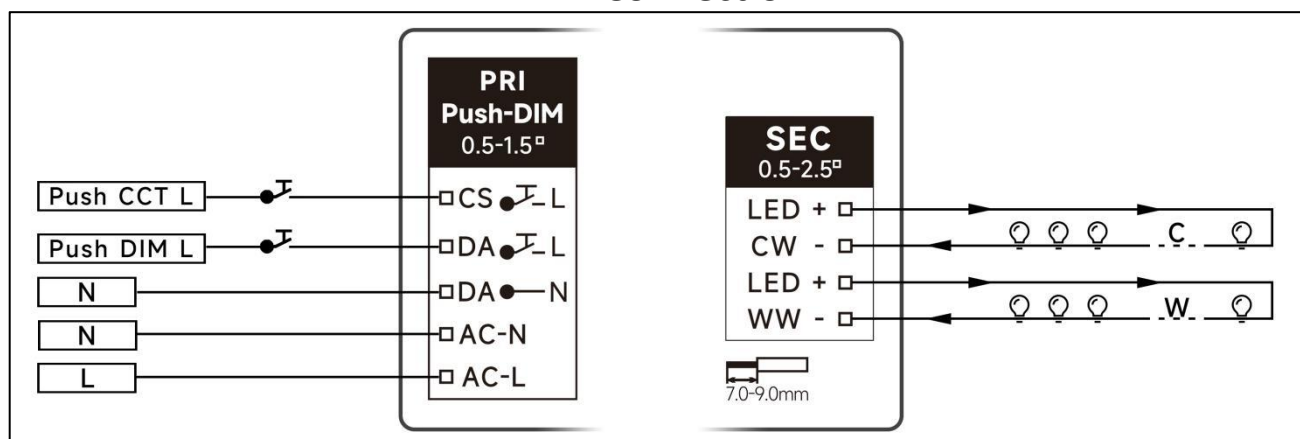
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
29.3A	294μs	9pcs	14pcs	18pcs	12pcs	20pcs	25pcs

◆ Wiring diagram

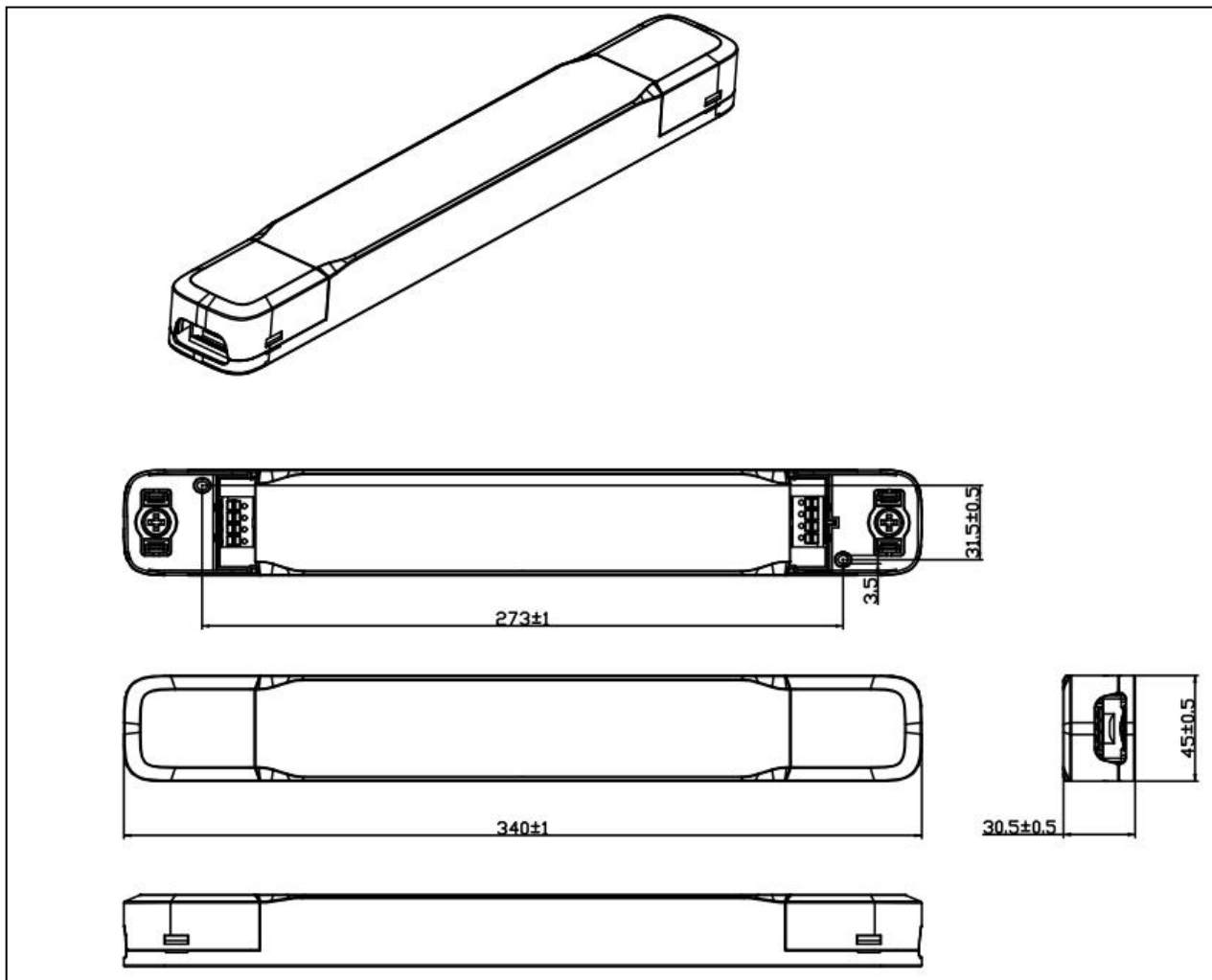


DALI Connection



push DIM/CCT Connection

◆ 2D diagram

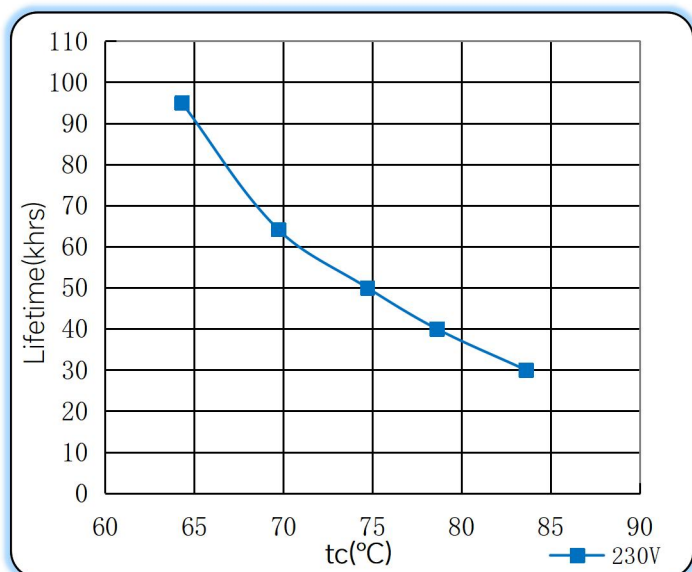


Wiring & Connections

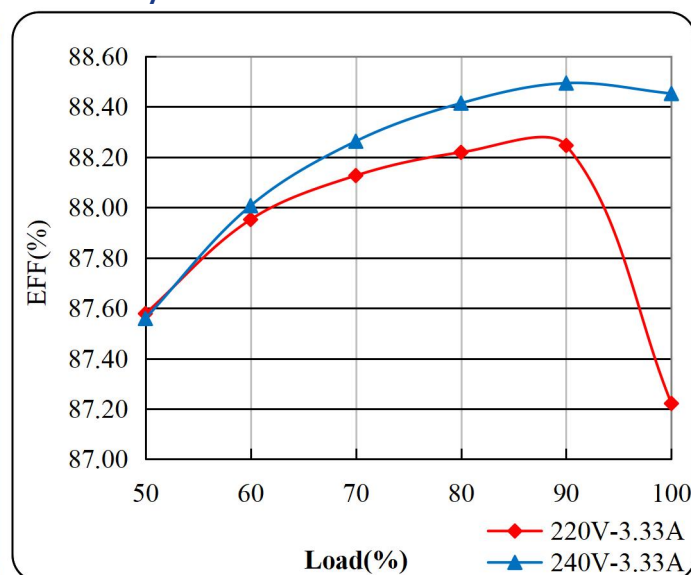
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...2.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-80-24 DALI-2-DT8 LI

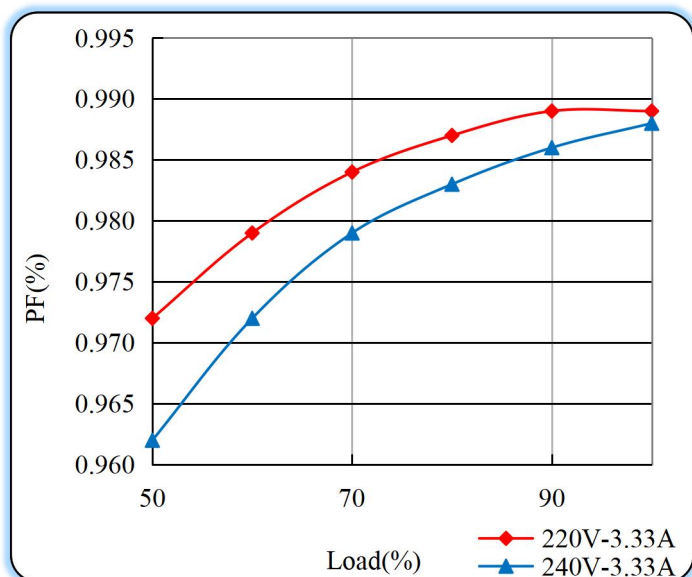
Lifetime vs. Temperature Curve



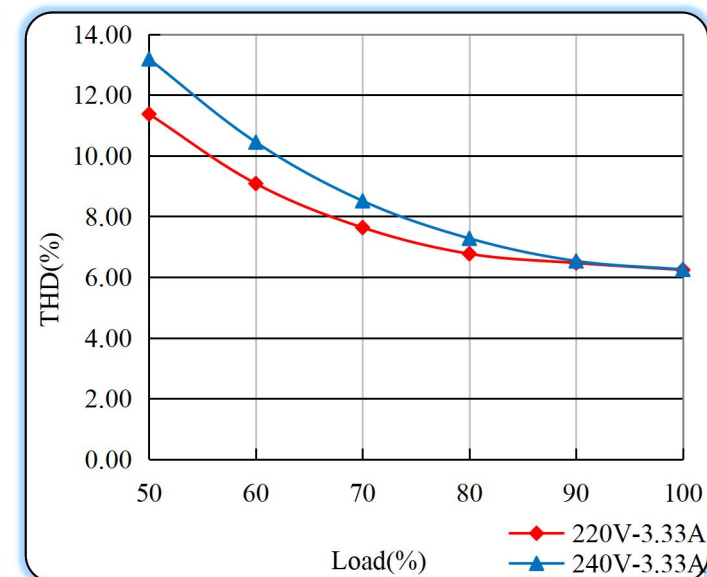
Efficiency vs. Load



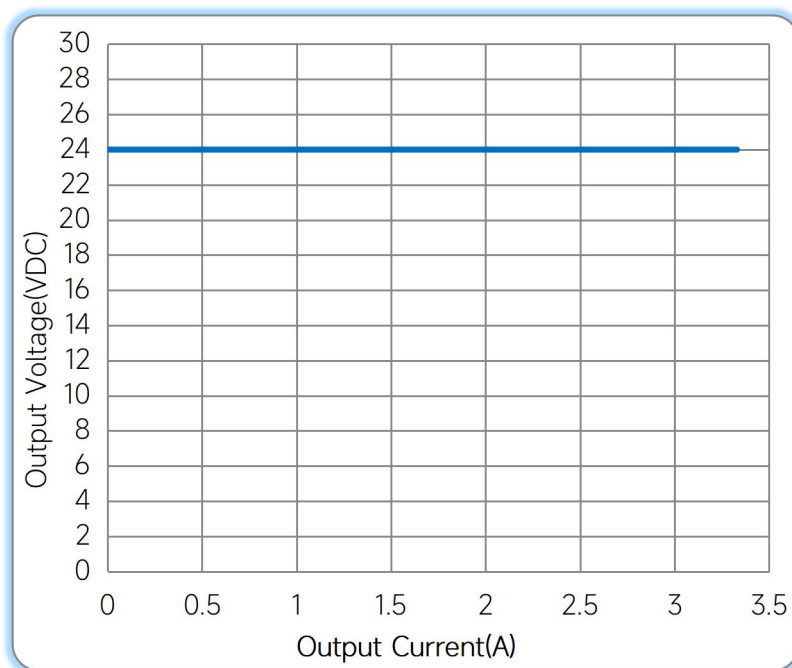
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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Manual