100W DALI + PUSH Dimming power supply



■Approve

Features

- Class I, SELV, Built-in & Indenpendent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.95(Typ.)
- Efficiency : 92%(Typ.)
- Support DALI-2,Push Dimming
- 5 years warranty
- IP20

Applications

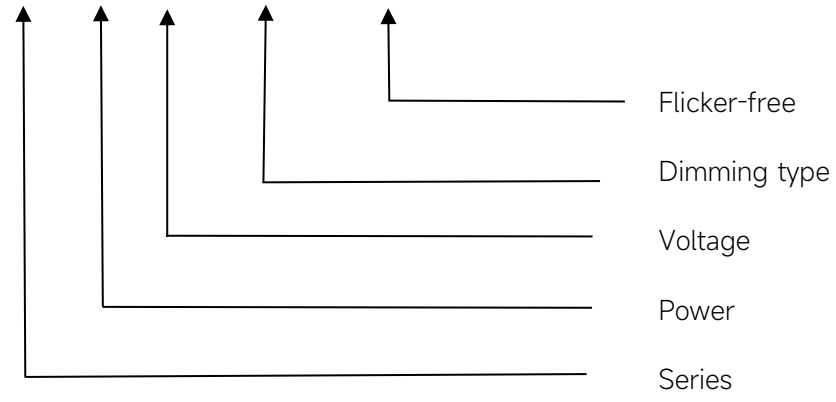
- Strips light

◆ Description

MS-100-24 DALI-2 LI is an 100W constant Voltage LED driver that operates from198-264Vac input with 24V output voltage. With it's compact dimensions from 425x30x21mm. 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

MS-100-24 DALI-2 LI



◆ Specification

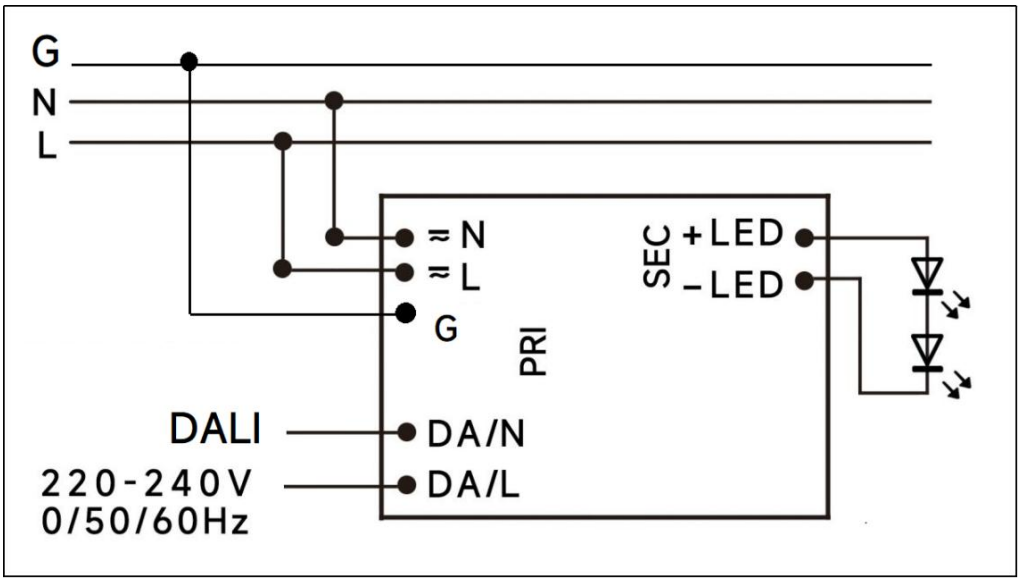
Output	Constant Voltage	24VDC
	Current Range	0-4.17A
	Voltage Accuracy	±5%
	Output HF current ripple(≥1KHz)	±1%
	Output LF current ripple(≤120Hz)	±1%
	SVM	≤0.4
	Pst	≤1
	Efficiency(Typ.)	≥92%@Full load,220-240V
	EOFI	15%
Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Rated input voltage(DC)	220-240VDC
	Range input voltage(DC)	198-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.95
	Power Factor	≥0.95@Full load,230V
	Input Current max	0.56A
	Start-up time	＜0.7S
	No Load Power	≤0.5W
	Standby Power	≤0.5W@DALI OFF signal is in effect
	Network standby power	≤0.5W
	THD (Typ.)	＜10% @Full load,220-240V
Dimming	Dimming	YES
	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push
	Dimming depth	1%
	Dimming current range	1-100%
	Dimming frequency	3-20K@0-6.6%,20K@＞6.6%
Protection	Over Load Protection	105-150%
		YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	-20℃...+60℃
	Humidity	20%-90%RH
	Tc	80℃
	Storage Temperature	-25℃...+60℃
	Life time	≥50,000h@Tc=80℃, full load
	Noise	≤25dB(A)@30cm

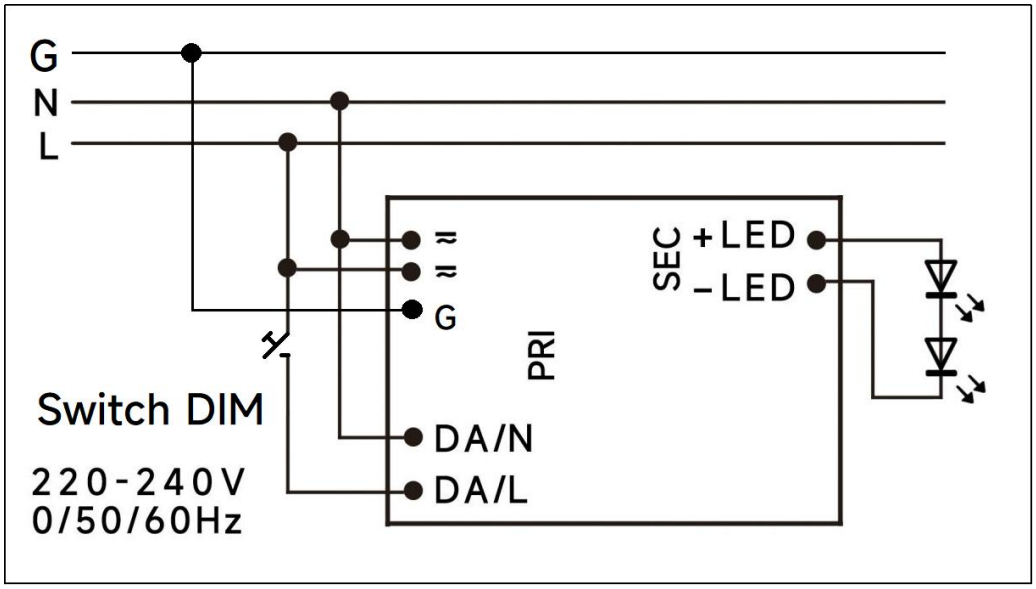
Surface	Dimension	425x30x21(LXWXH)mm
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1..All parameters not specially mentioned are measured at 230VAC input , full load and 25℃ of ambient temperature. 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

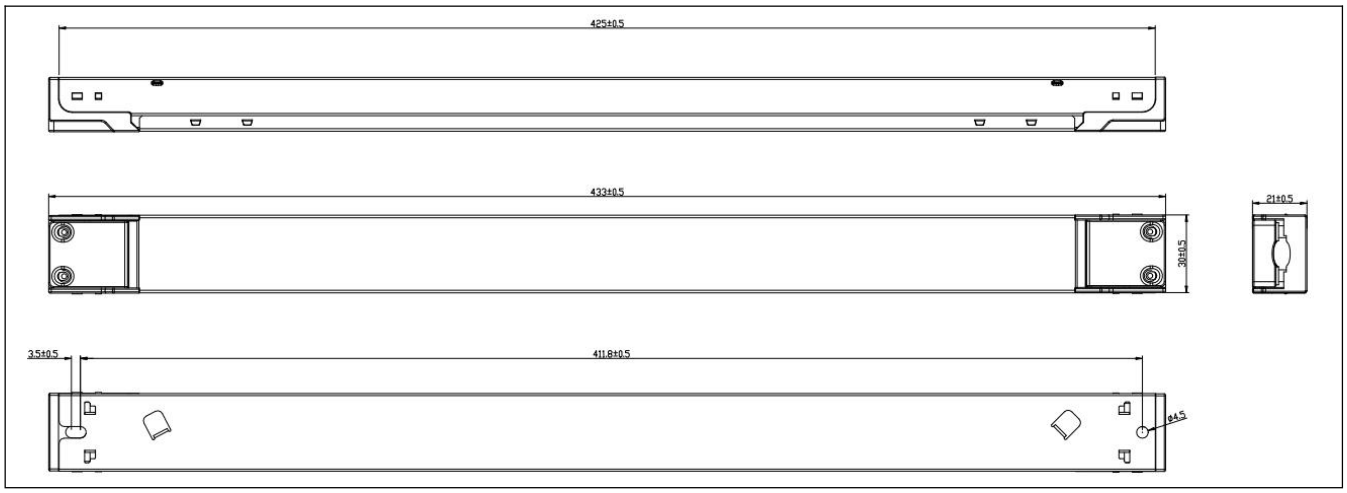
I^{peak}	T_{width}	B10	B16	B20	C10	C16	C20
46A	**284μs**	6pcs	9pcs	12pcs	10pcs	16pcs	20pcs

◆ Wiring diagram





◆ 2D diagram



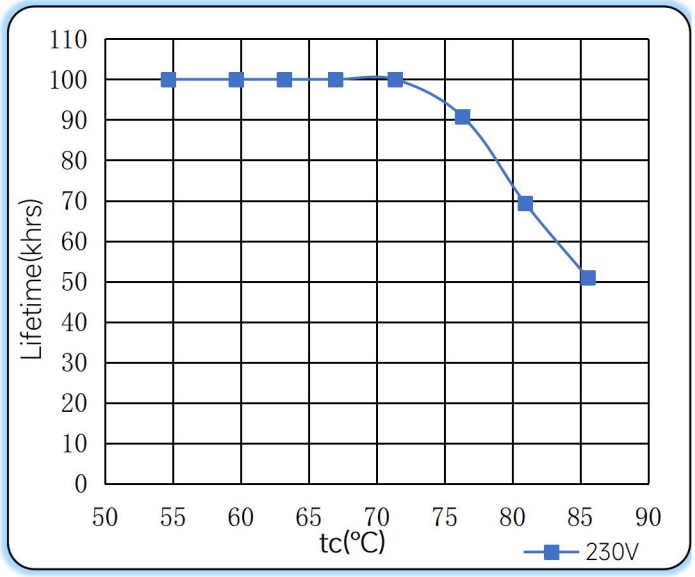
◆ Wiring & Connections

Specification item		Value （Unit ）
Input	Input wire cross-section	0.75...1.5 mm² （With side caps：0.75...1.5 mm²）
	Input wire gauge.	16...20 AWG（With side caps：16...22 AWG ）
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.75...1.5 mm² （With side caps：0.75...1.5 mm²）
	Output wire gauge.	16...20 AWG（With side caps：16...22 AWG ）
	Output wire strip length	7...9mm

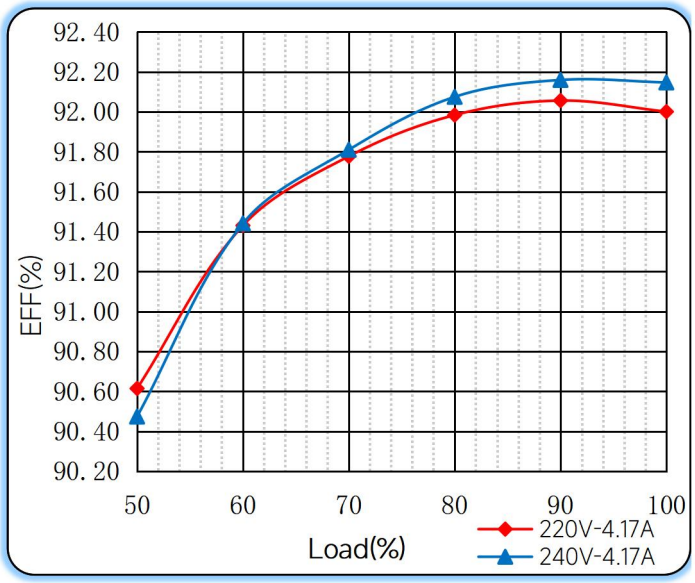
Note:Solid wire is risky to use on an angled terminal.Stranded wire is recommended for this kind of use.

◆ Curve for MS-100-24 DALI-2 LI

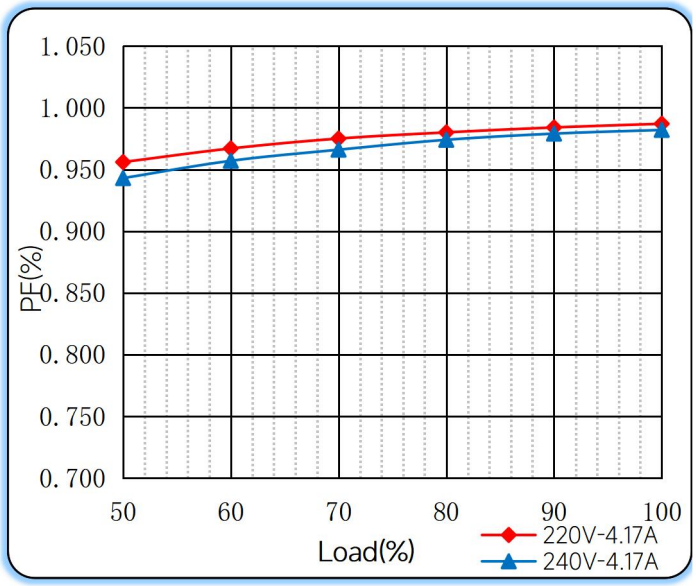
Lifetime vs. Temperature Curve



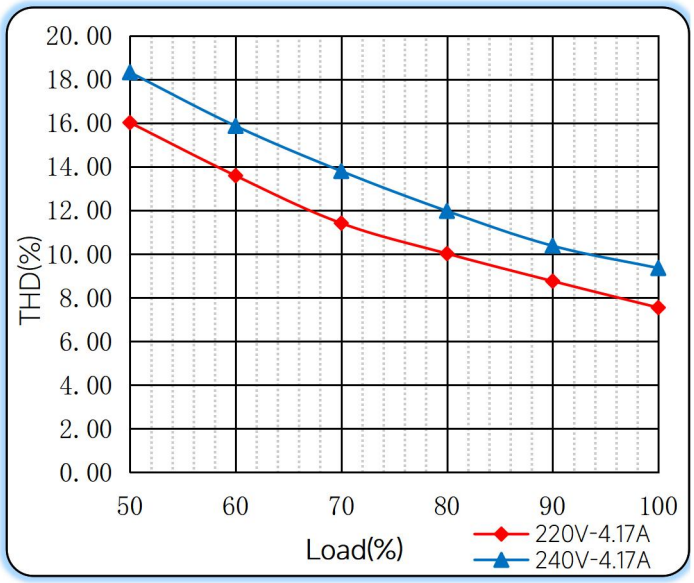
Efficiency vs. Load



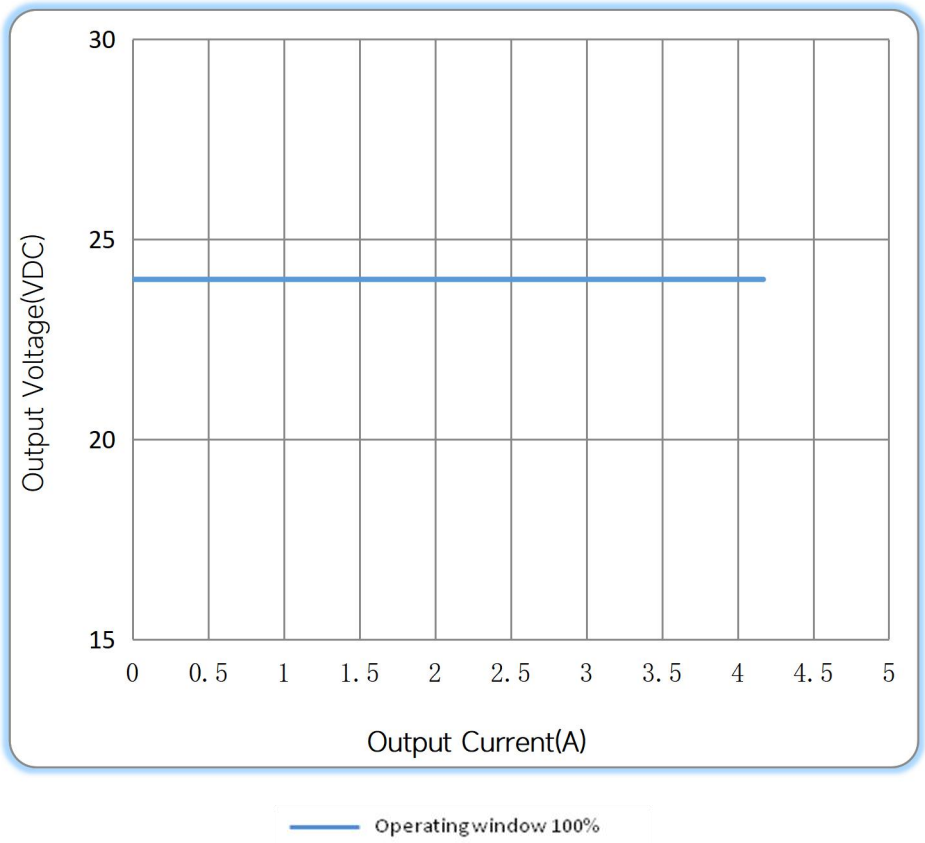
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/05/12
Curve		Updated	B	2023/05/25
2D diagram		Updated	C	2023/06/16

Remark:The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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