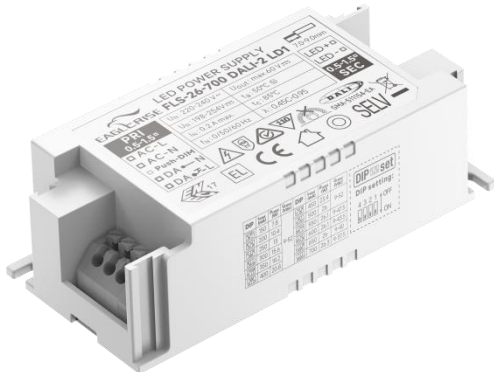


26W DALI+PUSH Dimming power supply



■ Approve

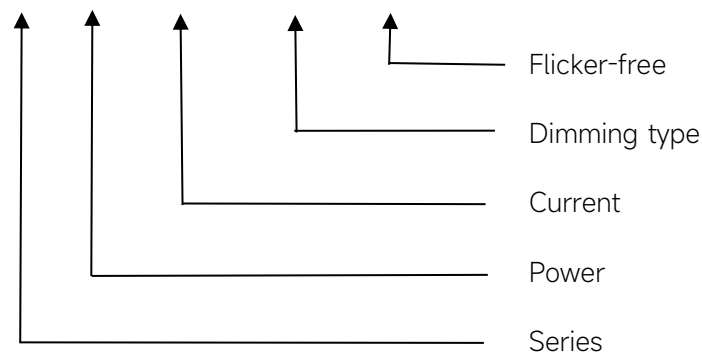


◆ Description

FLS-26-700 DALI-2 LD1 is a 26W constant current LED driver with 150 to 700mA output current and a forward voltage range from 9 to 52Vdc. The output current is adjustable by DIP Switch. With its dimensions from 97 x 43 x 30mm it is easy to integrate in LED Panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over load.

◆ Model code

FLS-26-700 DALI-2 LD1



Features

- Class II, SELV, Built-in/Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.95
- Efficiency : 85%
- Support DALI-2, Push Dimming
- 5 years warranty

Applications

- LED panel, down light,

◆ Specification

Output	Constant Current (mA)	150	200	250	300	350	400	450	500	550	600	650	700	
	Voltage Range (VDC)	9-52									9-47.	9-43.5	9-40	9-37.5
	Unload voltage Max.	60VDC												
	Current Accuracy	±7%						±5%						
	Output HF current ripple(≥1KHz)	±10%												
	Output LF current ripple(≤120Hz)	±3%												
	SVM	≤0.009												
	Pst	≤0.011												
	Flicker index	0.008												
	Efficiency(Typ.)	85%@Full load,230V												
Input	Rated input voltage	220-240VAC												
	Range of input voltage	198-264VAC												
	Rated input voltage(DC)	198-280VDC												
	Frequency(Hz)	0/50/60 Hz												
	Displacement factor	≥0.9												
	Power Factor	>0.95@Full load,230V												
	Input Current	0.2A												
	Start-up time	< 0.5S												
	No Load Power	≤0.5W												
	Standby Power	≤0.5W												
	Network standby power	≤0.5W												
	THD (Typ.)	<10%												
Dimming	Dimming	YES												
	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)												
	Dimming depth	1%												
	Dimming current range	1 ~100%												
Protection	Over Load Protection	103-120%												
	Over Voltage Protection	> 60VDC												
	Short circuit Protection	YES/Latch off												
	Over Temperature Protection	YES/Auto Resume												
Environment	Operating Temperature	-20°C~+50°C												
	Humidity	20%-90%RH												
	Tc	75°C												
	Storage Temperature	-25°C~+60°C												
	Lifetime	>50000h,@Tc=75°C												

Surface	Dimension	97X43X30mm (With side caps: 131X43X30mm)
Standards	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384;GB/T17743;EN61547 GB 19510.1,GB 19510.14;GB/T 17743,GB 17625.1;EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3	
Others	Surge	L-N:1kV, Conforms to class C
	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<p>1.All parameters not specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>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.</p> <p>3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.</p> <p>4.Temperature test: tested at high temperature(50°C)/low temperature(-20°C)/normal temperature(25°C)</p>	

◆ Parameter

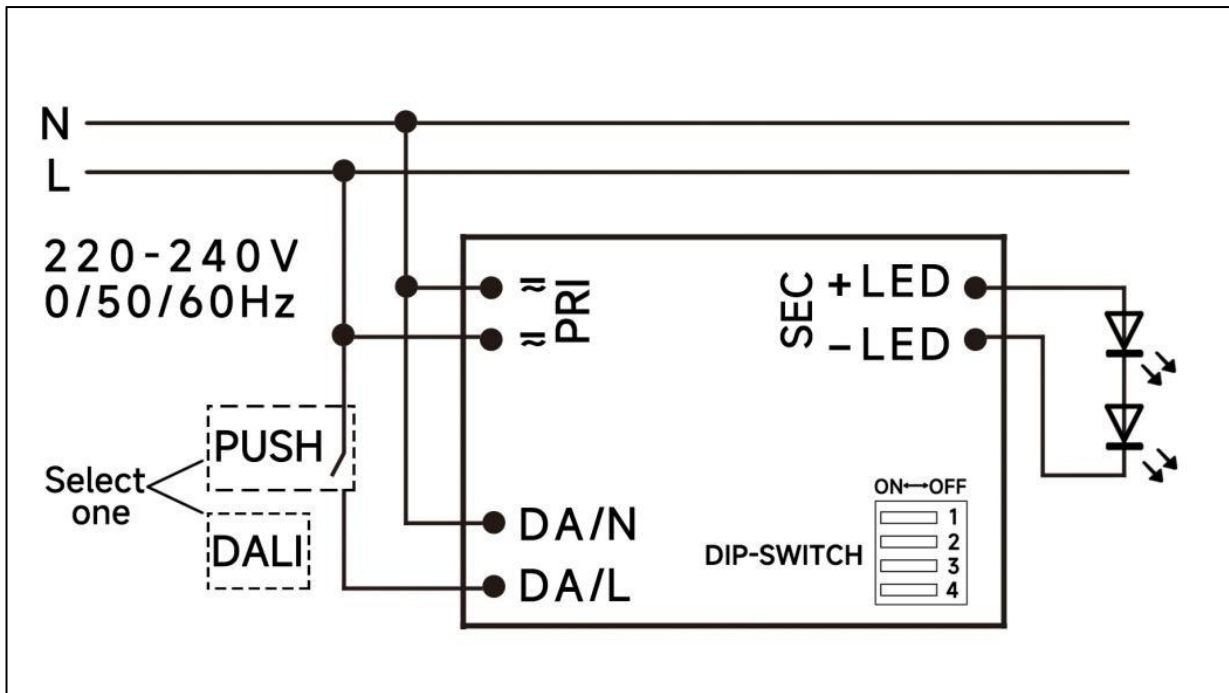
Number	Output				Switch position				
	Current(mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4	
1	150mA	9-52VDC	60VDC	7.8	--	--	ON	--	
2	200mA			10.4	ON	--	ON	--	
3	250mA			13	--	ON	ON	--	
4	300mA			15.6	ON	ON	ON	--	
5	350mA			18.2	--	--	--	ON	
6	400mA			20.8	ON	--	--	ON	
7	450mA			23.4	--	ON	--	ON	
8	500mA			26	ON	ON	--	ON	
9	550mA			9-47.5VDC	26.13	--	--	ON	ON
10	600mA			9-43.5VDC	26.1	ON	--	ON	ON
11	650mA			9-40VDC	26	--	ON	ON	ON
*12	700mA	9-37.5VDC	26.25	ON	ON	ON	ON		

* Factory default

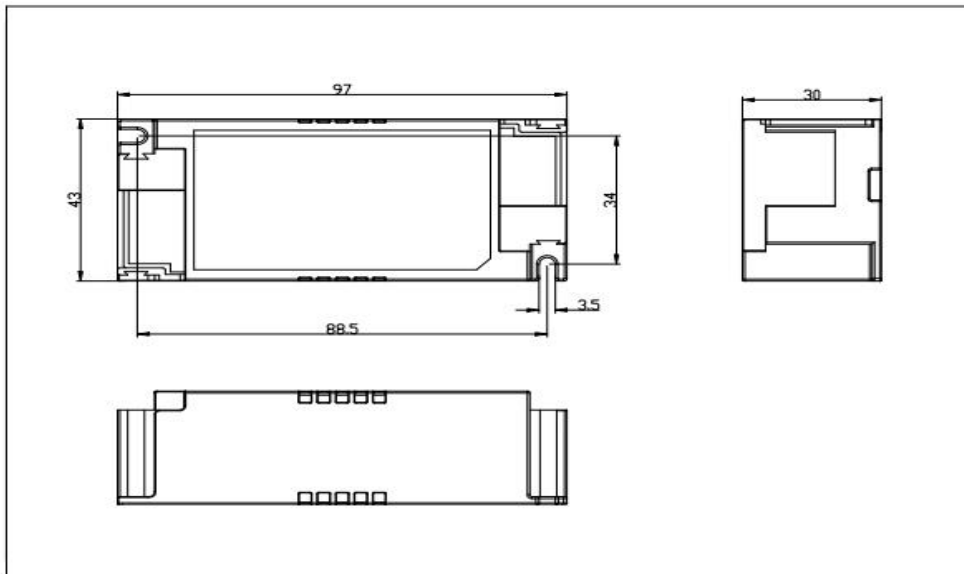
◆ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
5.22A	36μs	40pcs	64pcs	80pcs	40pcs	64pcs	80pcs

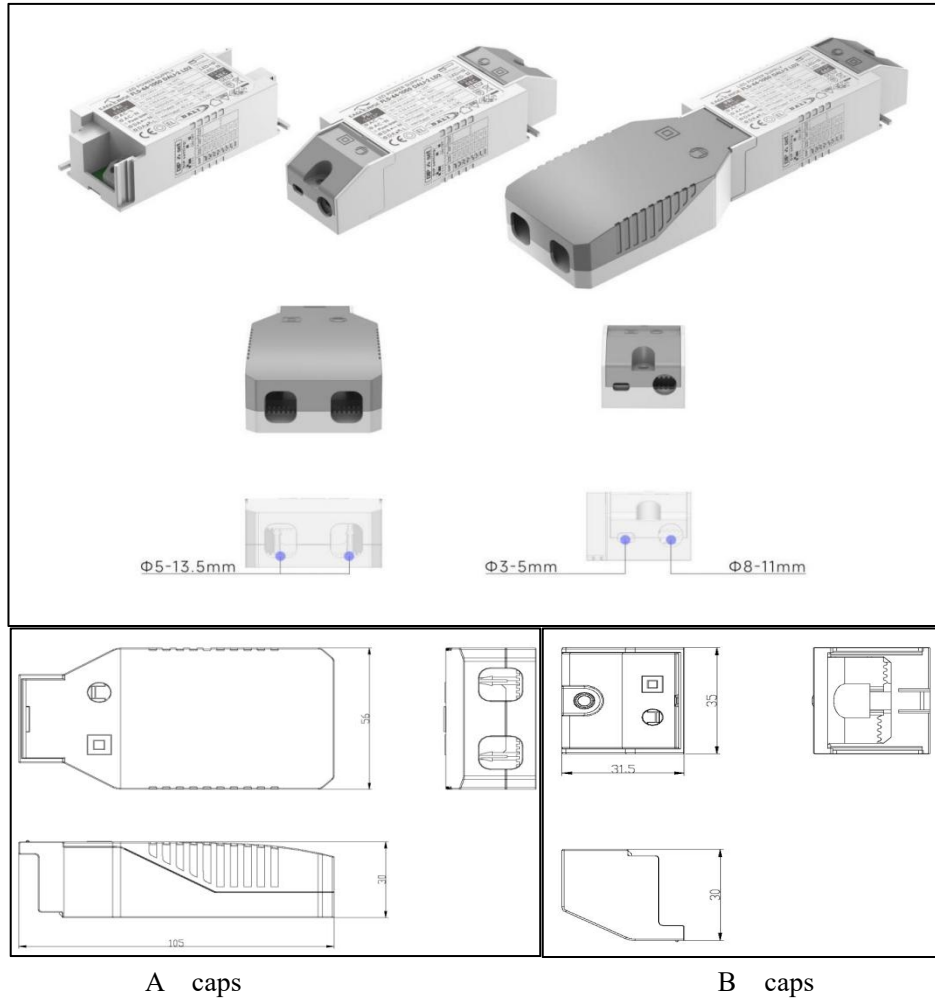
◆ **Wiring diagram**



◆ **2D diagram**



With side caps



◆ Wiring & Connections

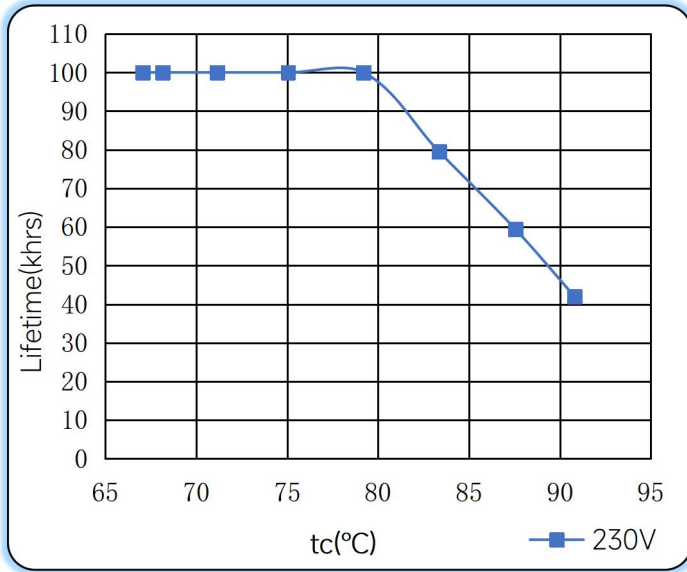
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge	16...20 AWG (With A side caps: 14...20 AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge	16...20 AWG
	Output wire strip length	7...9mm

Common ways of wire clamping:

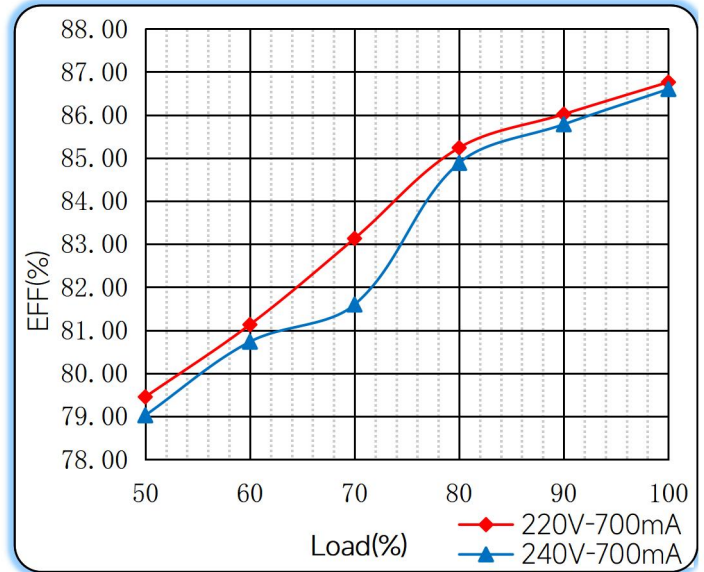
1. Tighten the screws to secure the side cover or clips, to clamp the cables
2. Through the main shell and side cover side teeth to clamp the cables

◆ Curve for FLS-26-700 DALI-2 LD1, I_o=700mA

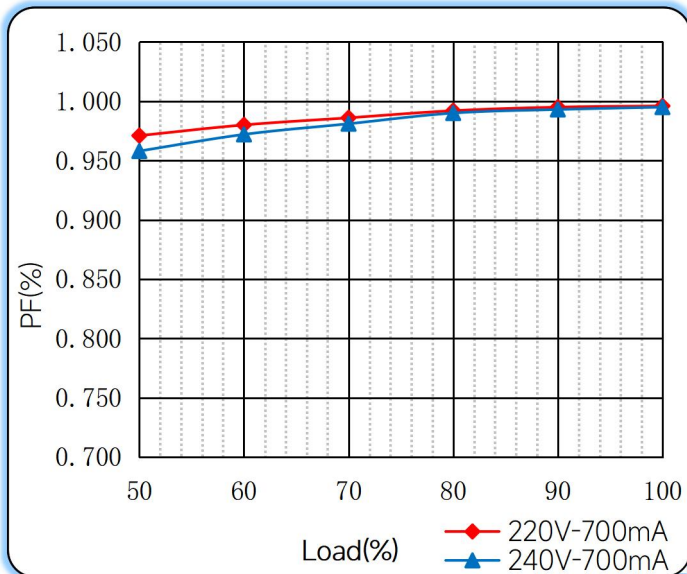
Lifetime vs. Temperature Curve



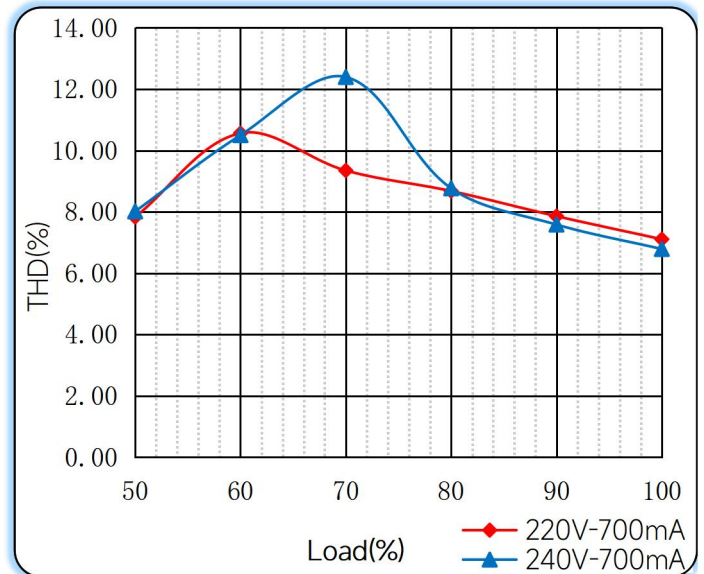
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



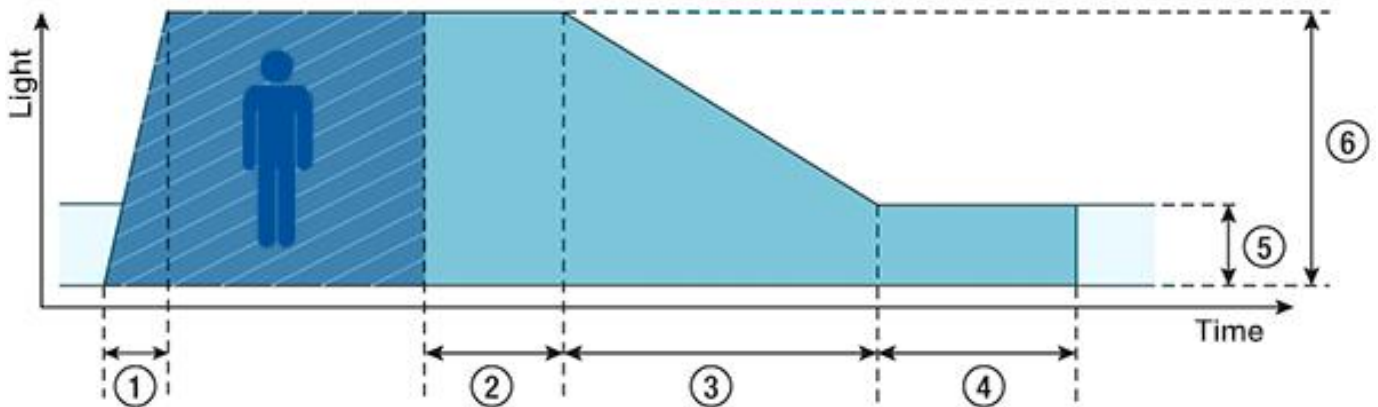
◆ Push dimming operation

Action	Action duration	Function
Short push	<0.5s	Turn on/off
Short push twice	<0.5s	LED on: Save current brightness level LED off: Delete saved level and turn on at 100% brightness
Short push five times	<0.5s	Quit Corridor mode
Long push	0.5-14s	Dimming up or down
Long push	15s-2mins	Sync all LEDs to be 100% brightness
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins. Then brightness will turn to be 10% within 32s if no action during 2mins 100% brightness.

Note:

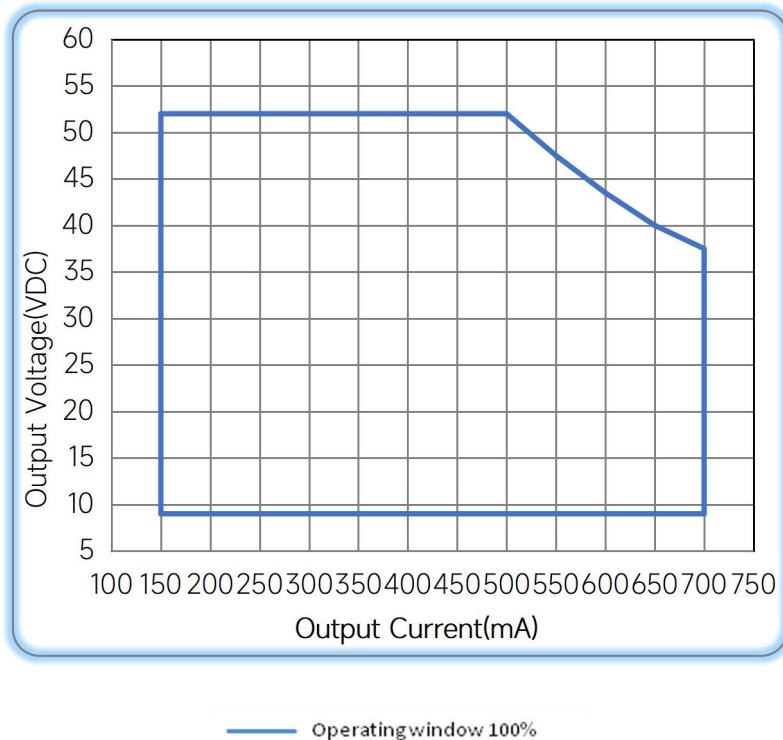
- 1.The factory default brightness is at 100%.
- 2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button
- 3.The maximum length of the cable from the push button to the last driver is 200 meters.

◆ Corridor mode



- ◆ **Fade-in time(0.5s)**: the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ◆ **Run-on time(120s)**: the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- ◆ **Fade time(32s)**: the time during which the luminous intensity is faded from the presence value to the absence value.
- ◆ **Switch-off delay (Never Off)**: the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- ◆ **Absence value(default: 10 %)**: the luminous intensity when there is no person present.
- ◆ **Presence value (default: 100 %)**: the luminous intensity when persons are present.

◆ **Operating window**



◆ **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022-02-15
Start-up time	0.5S	0.7S	A	2022/08/12

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EAGLERISE



Manual