



LED Intelligent Driver

- Dimming interface: DALI, Push DIM
- T-PWM™digital dimming.
- Dimming range: 0~100%, LED start at 0.01% possible.
- 0-100% flicker-free, High frequency exemption level.
- Innovative thermal management technology, intelligent power life protection.
- DALI dimming curve can be either linear or logarithmic.
- Multi-current & wide voltage, suitable for different power LED.
- $\bullet\,\,$ Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Short circuit / Over-heat / Over load / Non-load protection, recover automatically.
- DALI bus standard: IEC62386-101, 102, 207.
- Suitable for internal lights application for I / II / III .
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).

T-PWM

Super depth dimming technology

Flicker-free

IFFF 1789



TUV Certificate No. B 17 06 01119 001

RCM Equipment registration No: E2017013627 Ref: ESV170365

ENEC Certificate No. U6 17 07 01119 004

CE EMC Certificate No. BST1702498520001Y-1EC-1 LVD Certificate No. BST1709992470001Y-1SC-2





























Specification

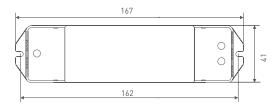
Model		DALI-1	5-100-700-E1A	.1	DALI-25-150-900-E1A1	DALI-36-	200-1200-E1A1				
Output Voltage		10-54Vdd	10-54Vdc								
OUTPUT	Max Output Voltage	58Vdc									
	Non-load Output Voltage	0Vdc									
	Output Current	100-700r	mA		150-900mA	200-1200m	200-1200mA				
	Output Power	1~15W	V		1.5~25W	2~36W					
	Strobe Level	Almost f	Almost flicker-free / High frequency exemption level.								
	Dimming Range	0~100%, LED start at 0.01% possible.									
	PWM Dimming Frequency	3600Hz (frequency conversion dimming)									
	LF Current Ripple(120Hz)	<2%									
	Current Accuracy	±5%									
	Ripple & Noise	≤2V (no dim)									
	Dimming Interface	DALI, Push DIM									
	Input Voltage Range	220-240Vac									
	Frequency	50/60Hz									
	Input Current	<0.15A	·		<0.2A	<0.3A					
	Power Factor		/230Vac, at full load		PF>0.93/230Vac, at full load	PF>0.95/230	OVac, at full load				
	THD	<20% at 230Vac, at full load									
	Efficiency(typ.)	83%			84%	87%					
	Inrush Current(typ.)		Cold start 2.53A at 230Vac [twidth=25.1µs measured at 50% peak]		Cold start 3.01A at 230Vac (twidth=35µs measured at 50% Ipeak)		.31A at 230Vac s measured at 50% [peak]				
	Anti Surge	L-N: 1kV									
	Leakage Current	<0.5mA/230Vac									
	Working Temperature	ta: 50°C	ta: 50°C tc: 90°C								
	Working Humidity	20 ~ 95%RH, non-condensing									
NVIRONMENT	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH									
	Temp. Coefficient	±0.03%/°C (0-50°C)									
	Vibration	10–500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.									
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature≥110°C, auto recovers									
PROTECTION	Over Load Protection	Shut down the output when rated power≽102%, auto recovers									
KOTEOTION	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers									
	Non-load Protection	Shut dov	Shut down the output if no load, auto recovers when load back to normal								
	Withstand Voltage	I/P-0/P: 3750Vac									
SAFETY & EMC	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH									
		ccc	CCC China GB19510.1, GB19510.14								
	Safety Standards	TUV									
		CE									
		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021							
		RCM	Australia	AS61347-1, AS61347-2-13							
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384							
		CCC	China	GB/T17743, GB17625.1							
	EMC Emission	RCM	Australia								
		CE	European Union EN550515, EN61000-3-2, EN61000-3-3								
			UKCA Britain BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:201								
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547									
	Strobe Test Standard		IEEE 1789								
	Dimensions		167×41×32mm(L×W×H)								
OTHERS	Packing		35mm(L×W×H)								
	·	100/43/	OUTTINGEN (TATE)								





Dimensions

Unit: mm





LED Current Selection

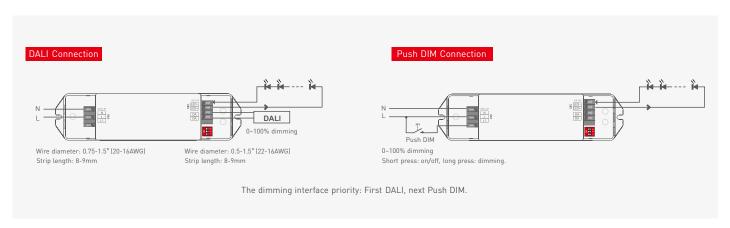
DIP switch for 8 optional currents' quick selection(see the table below).

	DIP Switch	TIT	117	171	ATT	TIL	TAT	TTA	TTT	
DALI-15-100-700-E1A1	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	ON OFF
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	
	Output Power	1W-5.4W	1.8W-9.72W	3W-15W	3.5W-15.05W	4.5W-15.3W	5W-15W	6W-15W	7W-15.4W	
	1			ı						
	DIP Switch	T T T	447	717	4 T T	7 1 1	7 4 7	TTL	TTT	
DALI-25-150-900-E1A1	Output Current	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	7 4
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V	ON OFF
	Output Power	1.5W-8.1W	2.5W-13.5W	3W-16.2W	3.5W-18.9W	5W-25W	6W-25.2W	7W-25.2W	9W-25.2W	
	DIP Switch	TIT	117	171	ATT	TIL	TAT	TTA	TTT	
DALI-36-200-1200-E1A1	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	T 4
2.12. 00 200 1200 ETAT	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V	ON OFF
	Output Power	2W-10.8W	3.5W-18.9W	5W-27W	6W-32.4W	7W-36.4W	9W-36W	10.5W-36.75W	12W-36W	1

* After current setting by DIP switch, power off and then power on to make the new current effective.

🛊 E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-22V can power 3-6pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Wiring Diagram



2

Push DIM



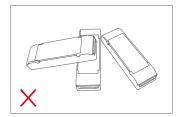
Reset Switch

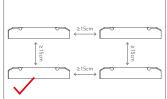
- On/off control: Short press.
- Stepless dimming: Long press.
- $\bullet\,\,$ With every other long press, the brighteness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.



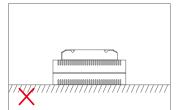


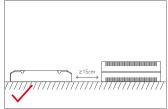
Installation Precautions





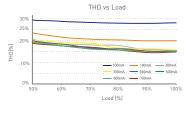
Please do not stack the products. The distance between two products should be≥15cm so as not to affect heat dissipation and the lifespan of the products.



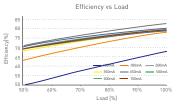


Please not place the products on LED drivers. The distance between the product and the driver should be $\geqslant 15 \text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.

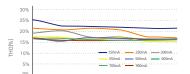
Relationship Diagrams



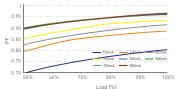


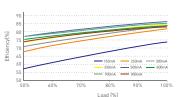






Load [%]

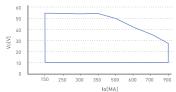


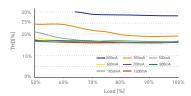


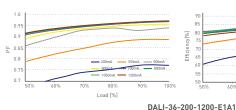
DALI-15-100-700-E1A1

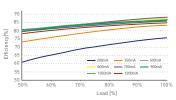
DALI-25-150-900-E1A1

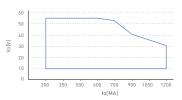
3











Flicker Test Form

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★ 50%
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■ 90%
■ 100%

Brightness

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1% 5% High Frequency Exemption Area Diagram

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IEEE 1789 High Risk

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IEEE 1789 No Effect

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Marks in the right chart were tested results of different current ranges.

The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

Frequency(Hz)

Modulation Area Diagram





Attentions

- · Products shall be installed by qualified professionals.
- LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- · Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- · Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- · Beyond warranty periods.
- · Any artificial damage caused by high voltage, overload, or improper operations.
- · Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- · Warranty labels and barcodes have been damaged.
- · No any contract signed by LTECH.
- 1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
- 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail

Update Log

Version	Updated Time	Update Content	Updated by
A5	2021.12.10	Update TUV certification icon; update product silk screen.	Liu Weili