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DALI DT6

Intelligent LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials.
- Ultra small, thin and lightweight, screwless end cap.
- Change the output current, DALI address and other parameters via the APP.
- Set the DALI group and scene in the advanced DALI template via the APP.
- Adjustable output current with 1mA step.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ super deep dimming technology, 0.01% dimming depth.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.

- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- + Suitable for Class I / II / III indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).

Flicker Free IEEE 1789 Dimmable: 10000 : 1 A V NFC•))

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Technical Specs

Madal		05 10 1	00 F00 W/1-				
Model		SE-12-100-500-W1D					
	Output Type		t current				
	Dimming Interface	DALI-2					
Features	Output Feature	Isolatior	1				
	Protection Grade	IP20					
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)					
	Output Voltage	9-42Vdc					
	Maximum output voltage(No-load)	≤48V					
	Output Current Range	100-500	mA				
OUTPUT	Output Power Range	0.9W~12	2W				
	Dimming Range	0~100%, down to 0.01%					
	LF Current Ripple	<3%[Maximum current for non dimming state]					
	Current Accuracy	±5%					
	PWM Frequency						
	DC Voltage Range	120-300Vdc					
	AC Voltage Range	100-240Vac					
	Input Voltage	115Vac/230Vac					
	Frequency	50/60Hz					
INPUT	Input Current	≤0.18A/115Vac ≤0.08A/230Vac					
	Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)					
	THD	THD<10%/230Vac (at full load)					
	Efficiency (Typ.)	84%@300mA (at full load), 82%@500mA (at full load)					
	Inrush Current	Cold start 15A(Test twidth=130us tested under 50% Ipeak)/230Vac					
	Anti Surge	L-N:2KV					
	Leakage Current	Max.0.24					
	Working Temperature	ta:-20~5	i0°C tc:90°C				
	Working Humidity	20 ~ 95%	6RH, non-condensing				
ENVIRONMENT	Storage Temperature/Humidity	-40-80°C/10-95%RH					
	Temperature Coefficient	±0.03%	±0.03%/°C(0-50°C)				
	Vibration	10~500H	lz, 2G 12min/1cycle, 72 r	nin for X, Y and Z axes respectively			
	Overload Protection	Automat	ically protect the device	when the load exceeds 102% of the rated power. Automatically recover once load is reduced			
	Overheat Protection	Intelliger	Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal output				
PROTECTION	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically					
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically					
	Withstand Voltage	I/P-0/P: 3750Vac					
	Insulation Resistance	I/P-0/P:100MQ/500VDC/25°C/70%RH					
		CCC	China	GB19510.1, GB19510.14			
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
		СВ	CB Member States	IEC61347-1, IEC61347-2-13			
		CE	European Union	EN61347-1, EN61347-2-13, EN62384			
		KC	Korea	KC61347-1, KC61347-2-13			
	Safety Standards	EAC	Russia	IEC61347-1, IEC61347-2-13			
		RCM	Australia	AS 61347-1, AS 61347-2-13			
SAFETY		ENEC		EN61347-1, EN61347-2-13, EN62384			
&			Europe				
EMC		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493			
		BIS	India	IS 15885 (PART 2/SEC 13)			
		CUL	Canada	CSA C22.2 N0.250.13			
		UL	America	UL 8750			
	EMC Emission	000	China	GB/T17743, GB17625.1			
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
		KC	Korea	KSC 9815, KSC 9547			
		EAC	Russia	IEC62493, IEC61547, EH55015			
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
		UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547			
		CUL	Canada	ICES-005			
		UL	America	FCC PART 15B			
	EMC Immunity	EN6100	00-4-2,3,4,5,6,8,11, EN	61547			
ErP	Power Consumption	Standby power consumption		No standby mode			
		Networked standby		<0.5W (After shutdown by command)			
		No-load power consumption		<0.5W (When the lamp is not connected)			
	Flicker/Stroboscopic Effect	IEEE1789		Meet IEEE 1789 standard/High frequency exemption level			
	Flicker/Slioboscopic Ellect	015010	4				
		CIESVN		Pst LM≤1.0, SVM≤0.4			
	DF	Phase	factor	Pst Lms1.0, SVM<0.4 DF 0.9			
OTHERS		Phase 85g±10	factor				

DALD2

T-PWM

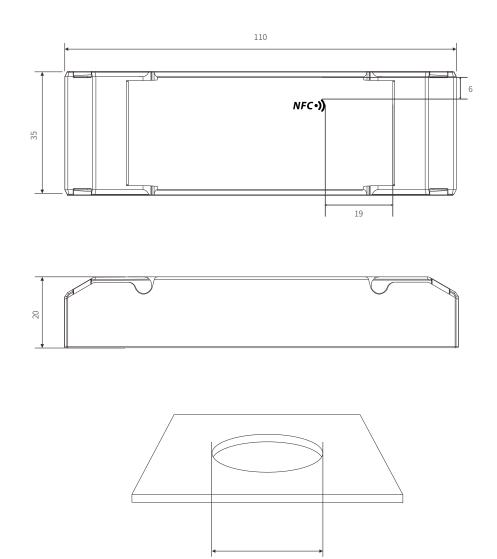
DIM



DALI DT6

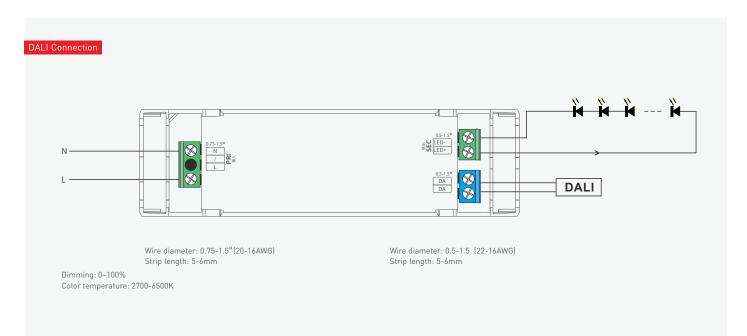
Product Size

Unit: mm



Minimum hole size: φ40mm (1,57")

Wiring Diagram





Current and Parameters Sheet

The typical 9 current data sets	typical 9 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-500mA adjustable in 1mA ste								
Output Current	100mA	150mA	200mA	250mA	300mA				
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc				
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W				
Output Current	350mA	400mA	450mA	500mA	/				
Output Voltage	9-34Vdc	9-30Vdc	9-27Vdc	9-24Vdc	/				
Output Power	3.15-11.9W	3.6-12W	4.05-12.15W	4.5-12W	/				

Protective Housing Application Diagram



1. Use a tool to pry up the protective housing on the side panel.



2. Pry up the protective housing in the side plate position with a tool.



3. Connect to electrical wires with a screwdriver as wiring diagram shows.

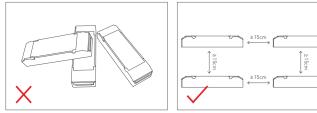


4. Press down the tension plate to fix the the electrical wires.

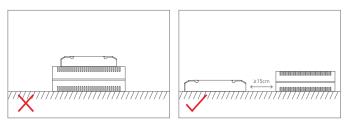


5. Close the protective housing.

Installation Precautions



Please do not stack the products. The distance between two products should be >15cm so as not to affect heat dissipation or the lifetime of the products.



Please not place the products on power supplies. The distance between the product and the power supplies should be >15cm so as not to affect heat dissipation or shorten the lifetime of the products.

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.





Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



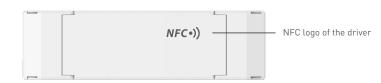
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

1. Read the LED driver

On the APP home page, click [Read/Write LED driver], then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

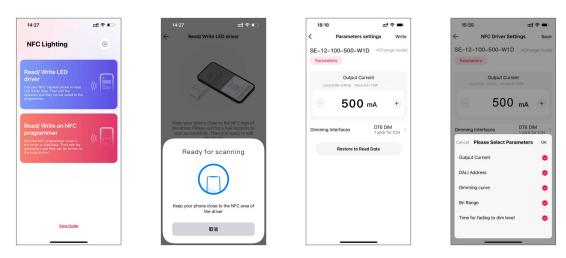


2. Edit the parameters

Click [Parameter settings] to edit the advanced parameters, like output current, DALI address, dimming curve, advanced DALI template, etc.

3. Write to the driver

After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



Advanced DALI template

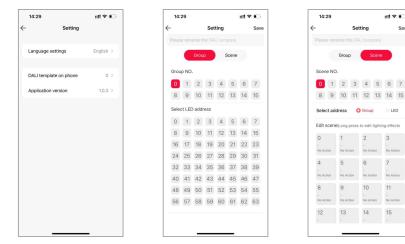
Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them in the advanced template to achieve lighting programming. Setup page (for Read/Write LED driver) : Go to App home page — 【 ③ 】 icon in the top right — 【DALI template on pnone】 .

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LED

3 -No Action

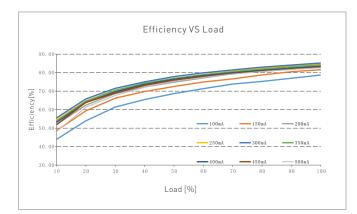
7



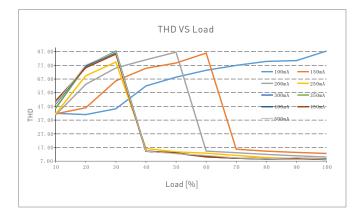


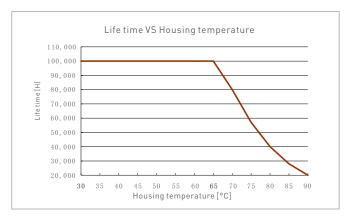
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Relationship Diagrams

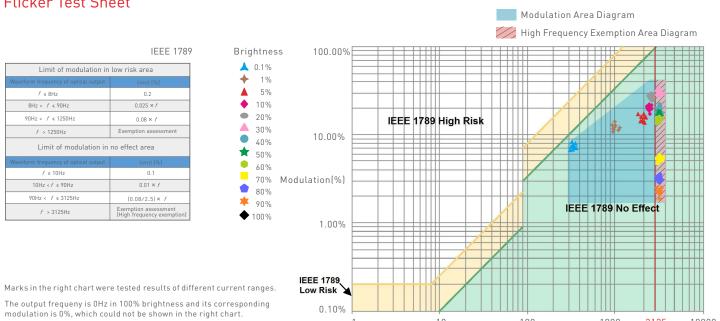








SE-12-100-500-W1D



10

100

Frequency(Hz)

Flicker Test Sheet

3125

1000

10000

1



Packaging Specifications

Model	SE-12-100-500-W1D
Carton Dimensions	260×240×215mm(L×W×H)
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton
Weight	0.095 kg/PC; 9.5 kg±5%/Carton

Packaging Image



Inner Packaging Box



Carton Packaging



Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- This product must be installed and adjusted by a qualified professional.
- This product is 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 life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * 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

Versio	Updated Time	Update Content	Updated by
AO	20230924	Original version	Yang Weiling