

# 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.
- DALI bus standard IEC62386-101, 102, 207.
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM<sup>™</sup> dimming technology allows quality and high-end lighting.
  The whole dimming process is flicker-free with high frequency exemption level.
- Multiple current levels, wide voltage range, suitable for LEDs with different power
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be OV to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class | / || / ||| indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).

#### LTECH No. DIM T-PWM **Flicker Free** IEEE 1789 Dimmable: 10000:1 DALL 2 LA CB III I C C C ROHS O ErP V O O O X 18 $(\mathbf{m})$ EBE DALI T-PWM Flicker Fre V

#### **Technical Specs**

Model		SE-10-	350-700-W1DS		SE-12-100-400-W1DS	SE-12-350-700-W1DS					
	Output Type		nt current		52 12 100 100 M100	5E 12 556 100 H195					
	Dimming Interface	DALI DT6									
Features	Output Feature	Isolatio									
	Protection Grade	IP20									
	Insulation Grade		(Suitable for class I/ II /I	II light fixtures)							
	Output Voltage	2-12Vd			9-42Vdc	9-24Vdc					
	Output voltage range(No-load)	≤35Vd			≤50Vdc	≤35Vdc					
	Output Current Range	350-70			100-400mA	350-700mA					
	Maximum output voltage	0.7W-8			0.9W-12W	3.15W-12W					
OUTPUT	Dimming Range		, down to 0.01%		0.7 *** 12**	0.1011 1211					
	LF Current Ripple		aximum current for non d	limming state)							
	Current Accuracy	±5%		initial g state)							
	PWM Frequency	≤3600	Hz								
	DC Voltage Range	120-30									
	AC Voltage Range	100-24									
	Input Voltage		/230Vac								
	Frequency	50/60Hz									
	Input Current		∠ /115Vac (at full load), ≤0.01	7A/230Vac (at full load)	≤0.18A/115Vac (at full load), ≤0.08A/230Vac (at full load),	≤0.18A/115Vac (at full load), ≤0.08A/230Vac (at full load),					
INPUT	Power Factor		5/115Vac (at full load), PF								
	THD		0%/230Vac (at full load),	.,							
	Efficiency (Typ.)		t full load),		82% (at full load),	82%(at full load),					
	Inrush Current			s tested under 50% In							
	Anti Surge	Cold start 15A(Test twidth=102us tested under 50%  peak)/230Vac L-N:2KV									
	Leakage Current	Max.0.2	24mA								
	Working Temperature										
	Working Humidity	ta:-20~50°C tc:80°C 20 ~ 95%RH, non-condensing									
ENVIRONMENT	Storage Temperature/Humidity	-40~80°C/10~95%RH									
-	Temperature Coefficient	土0.03%/°C[-20°C-40°C]									
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively									
	Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced									
	Overheat Protection	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:100MΩ/500VDC/25°C/70%RH									
		CCC	China	GB19510.1,GB195	10.14						
		TUV	Germany	EN61347-1, EN613	47-2-13, 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	Europe	EN61347-1, EN61347-2-13, EN62384							
&		UKCA	Britain	BS EN 61347-1 BS EN 61347-2-13 BS EN 62493							
EMC		BIS	India	IS 15885 (PART 2/S	5EC 13]						
		CCC	China	GB/T17743,GB176	25.1						
		CE	European Union	EN55015,EN61000	0-3-2, EN61000-3-3, EN61547						
		KC	Korea	KSC 9815, KSC 954	47						
		EAC	Russia	IEC62493, IEC6154	7,EH55015						
	EMC Emission	RCM	Australia	EN55015, EN61000	D-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									
	EMC Immunity	EN6100	00-4-2,3,4,5,6,8,11,EN615	47							
	Power Consumption	Standb	y power consumption	No standby mode							
		Networked standby		<0.5W (After shutdown by command)							
ErP		No-loa	No-load power consumption <0.5W (When the lamp is not connected)								
	Flicker/Stroboscopic Effect	CIESVM		PstLM<1.0 SVM<0.4							
	DF	Phase f	actor	DF>0.9							
	Weight(N.W.)	80g±10		1							
OTHERS	Dimensions		)×20mm(L×W×H)								



# DALI DT6

DIPswitch

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#### LED Current Selection

DIP switch quickly selects 8th gear current value

	DIP Switch							1 2 3	1 2 3	
SE-10-350-700-W1DS	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	ON OFF
SE-10-330-700-WID3	Output Voltage	2-12V	2-12V	2-12V	2-12V	2-10V	2-12V	2-12V	2-12V	
	Output Power	0.7-4.2W	0.8-4.8W	0.9-5.4W	1-6W	1.1-6.6W	1.2-7.2W	1.3-7.8W	1.4-8.4W	

SE-12-100-400-W1DS	DIP Switch				1 2 3	1 2 3			
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V	9-30V	ON OFF
	Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W	3.15-11.9W	3.6-12W	

	DIP Switch						1 2 3	1 2 3	1 2 3	
SE-12-350-700-W1DS	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	ON OFF
SE-12-330-700-W1D3	Output Voltage	9-24V	9-24V	9-24V	9-24V	9-22V	9-20V	9-18.5V	9-17V	
	Output Power	3.15-8.4W	3.6-9.6W	4.05-10.8W	4.5-12W	4.95-12.1W	5.4-12W	5.85-12W	6.3-11.9W	

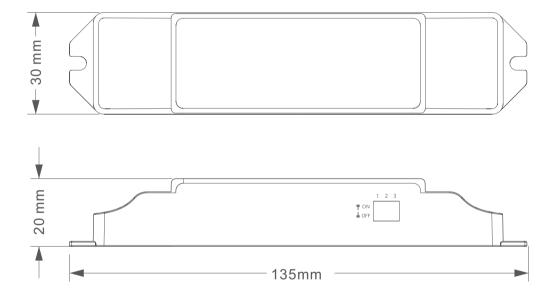
\* Before setting the current via the DIP switches, confirm that the LED driver is powered off. To make the current setting effective, you need to power on the driver again.

(Note: If you do not power off the driver before setting the current, it may cause damage to the light fixture.)

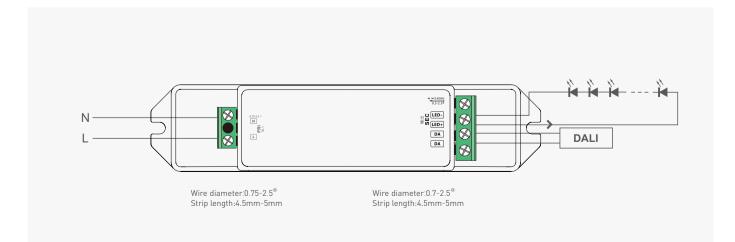
\* E.g. LED 3V/pcs: 9-42V can power 3-14pcs LEDs in series, 9-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

## Product Size

Unit: mm



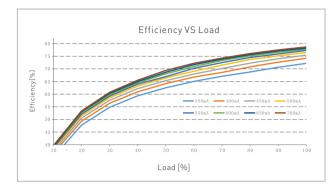
## Wiring Diagram

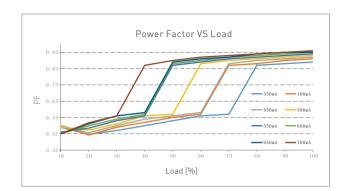


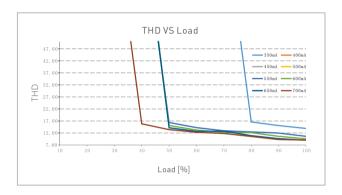


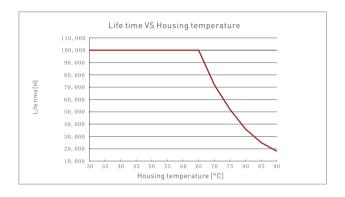
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#### **Relationship Diagrams**



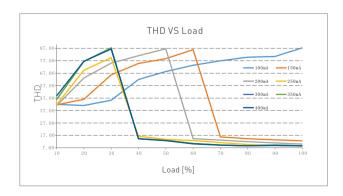


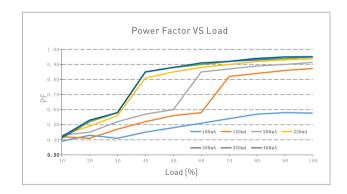


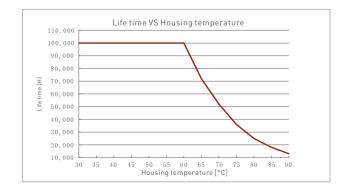


SE-10-350-700-W1DS





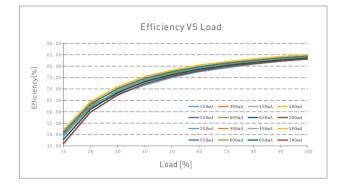


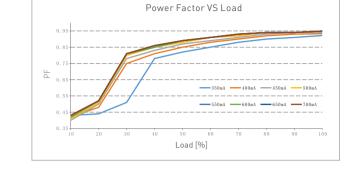


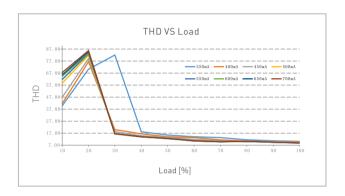
SE-12-100-400-W1DS

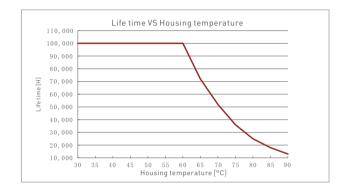


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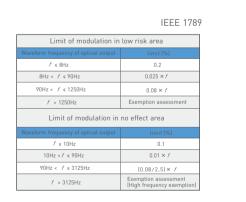




Modulation Area Diagram

SE-12-350-700-W1DS





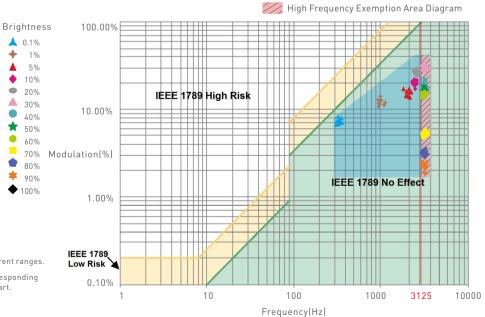
Marks in the right chart were tested results of different current ranges. The output frequeny is OHz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

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# Packaging Specifications

Model	SE-10-350-700-W1DS/SE-12-100-400-W1DS/SE-12-350-700-W1DS
Carton Dimensions	350×285×180mm(L×W×H)
Quantity	30 PCS/Layer; 5 Layers/Carton; 150 PCS/Carton
Weight	0.08 kg/PC; 12 kg±5%/Carton

## Packaging Image



Inner Packaging Box



Carton Packaging

# LTECH

# 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 gualified.

#### 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.

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# Update Log

V	/ersion	Updated Time	Update Content	Updated by
	A0	20230303	Original version	Yang Weiling