

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[™] 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 In the second se T-PWM **Flicker Free** IEEE 1789 Dimmable: 10000:1 DALL 2 X (\mathbf{m}) EEE 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		int current									
Features	Dimming Interface	DALI D										
	Output Feature	Isolatio										
	Protection Grade	IP20										
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)										
	Output Voltage	2-12Vd		in tight fixtures)	9-42Vdc	9-24Vdc						
	Output voltage range(No-load)				≤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%		0.778-1288	5.1344-1244						
	LF Current Ripple		aximum current for non d	dimming state)								
	Current Accuracy	±5%		unning state)								
	PWM Frequency	≤3600	 Н 7									
	DC Voltage Range	120-30										
	AC Voltage Range	100-24										
	Input Voltage	115Vac/230Vac										
	Frequency Input Current		50/60Hz <0.15A/115Vac (at full load), <0.07A/230Vac (at full load), <0.18A/115Vac (at full load), <0.08A/230Vac (at full load									
INPUT	Power Factor		25/115Vac (at full load), ≪0.07			Source/ Horac (at full load), ≪0.00A/250vac (at full load),						
	THD		0%/230Vac (at full load),									
	Efficiency (Typ.)		t full load),		82% (at full load),	82%(at full load),						
			tart 15A(Test twidth=102u	is tasted upday E0% in		02/5(at futt toau),						
	Inrush Current Anti Surge	L-N:2K		is tested under 50% Ip	JEANJ/200Val							
	Leakage Current											
	Working Temperature	Max.0.24mA										
	Working Humidity	ta:-20~50°C tc:80°C 20 ~ 95%RH, non-condensing										
ENVIRONMENT	Storage Temperature/Humidity	-40~80°C/10~95%RH										
ENVIRONMENT	Temperature Coefficient	±0.03%/°C[-20°C-40°C]										
	Vibration		IHz, 2G 12min/1cycle, 72 r	min for X. Y and Z axe	s 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 6B19510.1, 6B19510.14										
		TUV	Germany	EN61347-1, EN613								
		CB	CB Member States	IEC61347-1, IEC61347-2-13								
		CE	European Union	EN61347-1, EN61347-2-13, EN62384								
		KC	Korea	KC61347-1, KC61347-2-13								
	Cafaty Standarda	EAC										
	Safety Standards	RCM Australia AS 61347-2-13										
SAFETY		ENEC										
&		UKCA										
EMC		BIS	India	IS 15885 (PART 2/5								
		CCC	China	GB/T17743, GB176								
		CE	European Union		0-3-2, EN61000-3-3, EN61547							
		KC	Korea	KSC 9815, KSC 95								
		EAC	Russia	IEC62493, IEC6154								
	EMC Emission	RCM	Australia		0-3-2, EN61000-3-3, EN61547							
			Britain		BS EN IEC 61000-3-2 BS EN 61000-3-3 BS EN	61567						
	EMC Immunity		00-4-2,3,4,5,6,8,11,EN615		55 EN 1000-3-2 55 EN 01000-3-3 85 EN							
	,											
	Power Consumption	Standby power consumption Networked standby		No standby mode								
ErD				<0.5W (After shutdown by command)								
ErP	Flicker/Stroboscopic Effect	100-103	No-load power consumption <0.5W (When the lamp is not connected)									
	Fucker/subbscopic Ellect	OLE ST.		PstLM<1.0 SVM<0.4								
		CIESVM			<u>.</u>							
	DF	Phase f	factor	PstLM≤1.0 SVM≤0.4 DF≥0.9	4							
OTHERS		Phase f 80g±10	factor		4							



DALI DT6

DIPswitch

LED Current Selection

DIP switch quickly selects 8th gear current value

	DIP Switch						1 2 3	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 WIDS	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			
	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	
SE 12 330 700 WIDS	Output Voltage	9-24W	9-24W	9-24W	9-24W	9-22W	9-20V	9-18.5V	9-17V	ON OFF
	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	

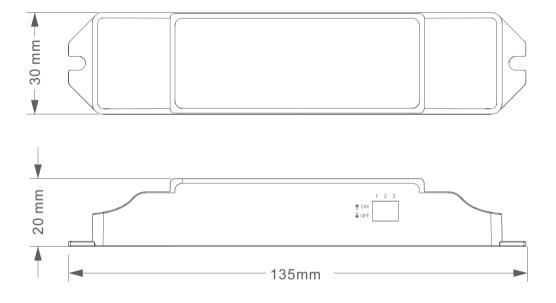
* Before setting the current via the DIP switches, confirm that the LED driver is powered off. To make the current setting effective, you need to power on the driver again.

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

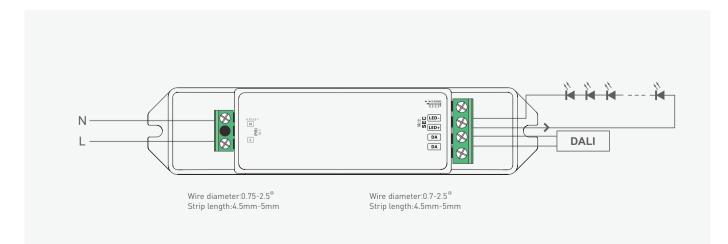
* E.g. LED 3V/pcs: 9-42V can power 3-14pcs LEDs in series, 9-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Product Size

Unit: mm



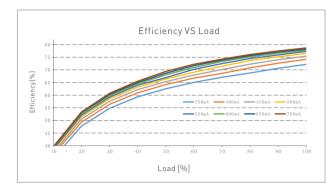
Wiring Diagram

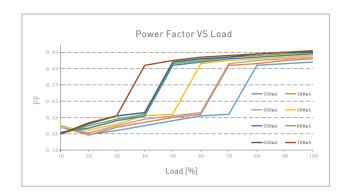


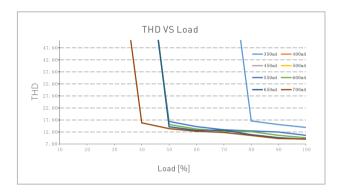


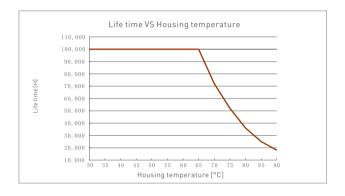
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Relationship Diagrams

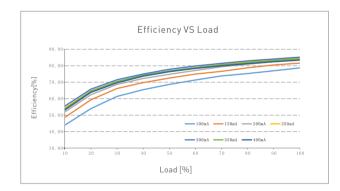


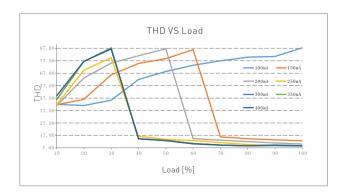


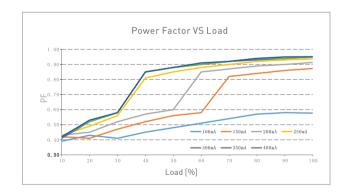


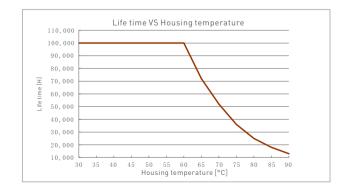


SE-10-350-700-W1DS





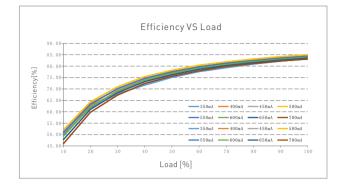


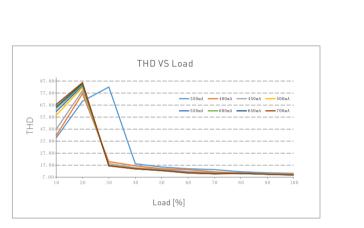


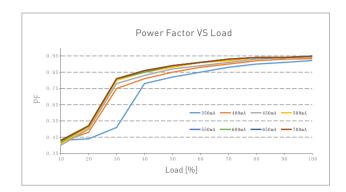
SE-12-100-400-W1DS

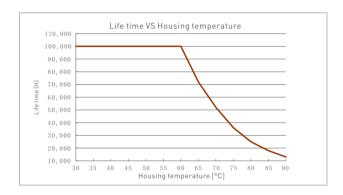


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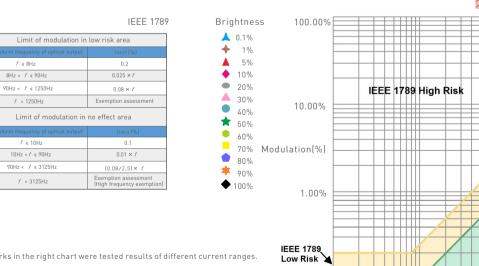




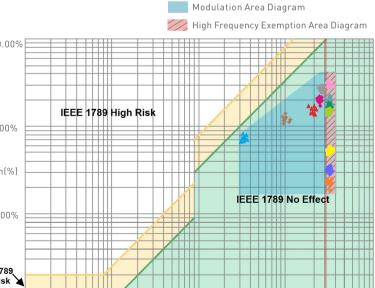


SE-12-350-700-W1DS





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.



100

Frequency(Hz)

1000

3125

10000

10

0.10%

1



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

Version	Updated Time	Update Content	Updated by
A0	20230303	Original version	Yang Weiling