

0-10V

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).



Technical Specs

Model		SE-10-	350-700-W1AS		SE-12-100-400-W1AS	SE-12-350-700-W1AS					
	Output Type	Consta	nt current								
	Dimming Interface	0-10V (1-10V, 10V PWM, RX)									
Features	Output Feature	Isolatio	n								
	Protection Grade	IP20									
	Insulation Grade	Class I	Suitable for class I/ II /I	II light fixtures)							
	Output Voltage	2-12Vd	с	-	9-42Vdc	9-24Vdc					
	Output voltage range(No-load)	≪35Vd	с		≪50Vdc	≪35Vdc					
	Output Current Range	350-70	0mA		100-400mA	350-700mA					
	Maximum output voltage	0.7W-8	.4W		0.9W-12W	3.15W-12W					
OUTPUT	Dimming Range	0~100%	6, down to 0.01%			·					
	LF Current Ripple	<3%(M	aximum current for non d	limming state)							
	Current Accuracy	±5%									
	PWM Frequency	≤3600	Hz								
	DC Voltage Range	120-30	0Vdc								
	AC Voltage Range	100-24	OVac								
	Input Voltage	115Vac	/230Vac								
	Frequency	50/60H	50/60Hz								
	Input Current	≪0.15A/1	15Vac (at full load), ≤0.07A/230\	Vac (at full load),	${\leq}0.18$ A/115Vac (at full load), ${\leq}0.08$ A/230Vac (at full load),	≤0.18A/115Vac (at full load),≤0.08A/230Vac (at full load)					
INPUT	Power Factor	PF>0.9	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load),								
	THD	THD≤1	THD≤10%/230Vac (at full load),								
	Efficiency (Typ.)	75% (a	75% (at full load), 82% (at full load), 82% (at full load),								
	Inrush Current	Cold start 15A(Test twidth=102us tested under 50% Ipeak)/230Vac									
	Anti Surge	L-N:2K	V								
	Leakage Current	Max.0.2	24mA								
	Working Temperature	ta:-20~50°C tc:80°C									
	Working Humidity	20 ~ 95%RH, non-condensing									
ENVIRONMENT	Storage Temperature/Humidity	-40-80°C/10-95%RH									
	Temperature Coefficient	±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									
PROTECTION	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									
	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									
		000	China	GB19510.1,GB195							
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493							
		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							
	Safety Standards	EAC	Russia	IEC61347-1, IEC61347-2-13							
SAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13							
&		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384							
EMC		UKCA	Britain		3S EN 61347-2-13 BS EN 62493						
		BIS	India	IS 15885 (PART 2/							
		000	China European Union	GB/T17743, GB170							
		CE	European Union		0-3-2, EN61000-3-3, EN61547						
		KC EAC	Korea	KSC 9815, KSC 95							
	EMC Emission	RCM	Russia Australia	IEC62493, IEC615							
					0-3-2, EN61000-3-3, EN61547	1/45/2					
	EMC Immunity	UKCA ENI6100		BS EN IEC 55015 BS EN IEC 61000-3-2 BS EN 61000-3-3 BS EN 61547							
	c.io initiatity	EN61000-4-2,3,4,5,6,8,11,EN61									
	Power Consumption	Standby power consumption		No standby mode							
F. 5			ked standby	<0.5W (After shutdown by command)							
ErP	Flicker/Stroboscopic Effect		d power consumption	<0.5W (When the lamp is not connected)							
		CIESVM		PstLM<1.0 SVM<0.4							
	DF	Phase factor		DF>0.9							
	Weight(N.W.)	80g±10	-								
OTHERS	Dimensions)×20mm(L×W×H)								



DIPswitch

LED Current Selection

DIP switch quickly selects 8th gear current value

	DIP Switch							1 2 3	1 2 3	
SE-10-350-700-W1AS	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	ON OFF
SE 10 330 700 WIAS	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-W1AS	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		1 2 3	. .
SE-12-350-700-W1AS	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
SE-12-330-700-WTAS	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	

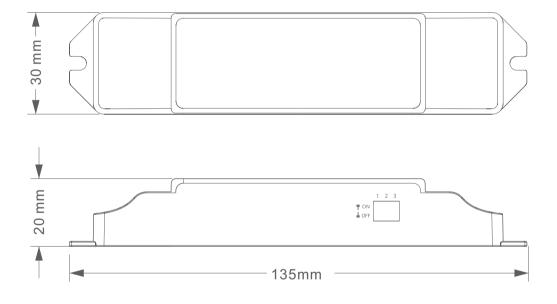
* Before setting the current via the DIP switches, confirm that the LED driver is powered off. To make the current setting effective, you need to power on the driver again.

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

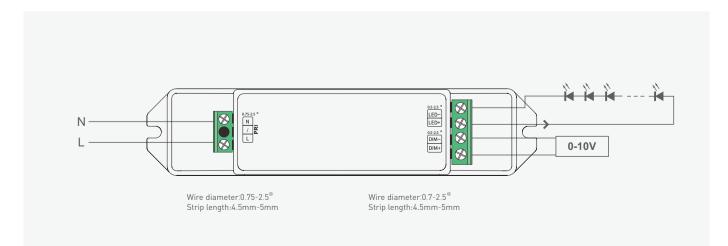
* E.g. LED 3V/pcs: 9-42V can power 3-14pcs LEDs in series, 9-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Product Size

Unit: mm



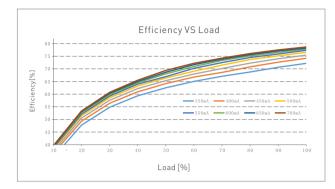
Wiring Diagram

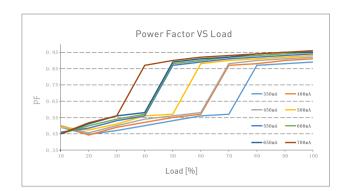


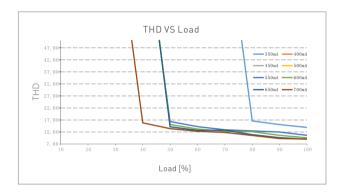


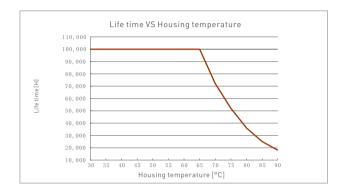
0-10V

Relationship Diagrams



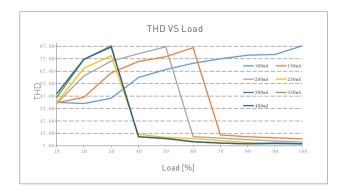


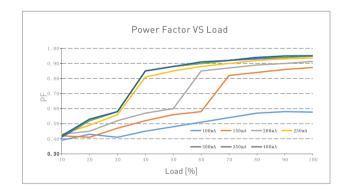


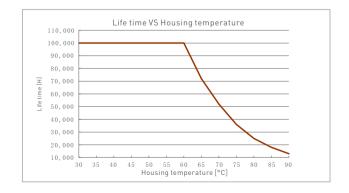


SE-10-350-700-W1AS





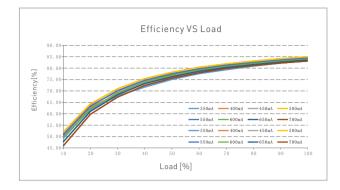


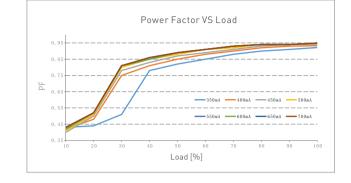


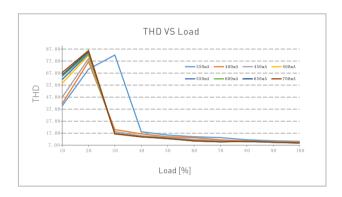
SE-12-100-400-W1AS

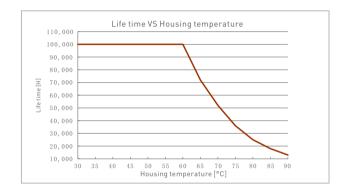


0-10V





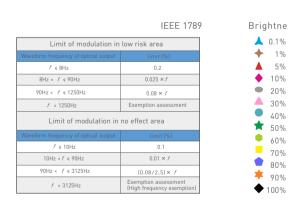




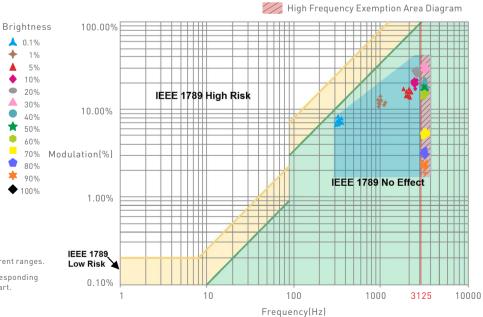
Modulation Area Diagram

SE-12-350-700-W1AS





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.





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Packaging Specifications

Model	SE-10-350-700-W1AS/SE-12-100-400-W1AS/SE-12-350-700-W1AS
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 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.

6



0-10V

Update Log

Version	Updated Time	Update Content	Updated by
AO	20230307	Original version	Yang Weiling