



Intelligent Tunable White LED Driver (Constant Current)

RDM

DIM/CT

IEEE 1789

Dimmable:

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials
- Ultra small, thin and lightweight, screwless end cap.
- Change the output current, DMX address and other parameters via the APP.
- Adjustable output current with 1mA step.
- Support RDM protocol.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ super deep dimming technol ogy, 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).

Technical Specs

STOCH ST **Flicker Free**



Peatures Output Type Constant current Dimming Interface DMX512/RDM Output Feature Isoliation Protection Grade IIP20 Insulation Grade Class II (Suitable for class I/ II /III light fixtures] Output Voitage 9-42/4dc Maximum output voitage 455/4c Output Current Range 300-1050mA Output Current Range 2.7W-40W Dimming Range 0-100%, down to 0.01% LF Current Ripple 4360M4z Current Kange 300-1050mA Output Verser Range 0-100%, down to 0.01% LF Current Ripple 4360M4z Current Kacuracy 45% PWM Frequency 4360M4z Dio-240Vac EsF: Input Voltage 1120-250Vdc AC Voltage Range 100-240Vac EsF: 100% Input Voltage 115Vac/230Vac Frequency 50/60Hz Input Current c0.45A/115Vac, 40.22A/230Vac Frequency 50/60Hz Input Current c0.45A/115Vac	Model		SE-//0-3	00-1050-W2M			
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End 100% Imput Vallage 1192/0220We Frequency 50/04P2 Imput formed 40.56/1190e. 64.022/20We Prove Factor FPS-8511590e. 16t full load Prove Factor FPS-8512300e. at full load Environ Gurrent 40.56/1190e. 16t full load Marci Gurrent 40.61 data 75812 Marci Gurrent 40.72000e. 17.01 Marci Gur							
Input Molage 115%c/230%c Input Molage 445M119%c; 427A230%c Input Corrent 445M119%c; 4101 load Power Factor PF:0.99119%c 18 full load TH0 Th0:105/230%c; 41 full load Enciney Typ.1 88 Tranta Current Cast data? 25A[Test twidth-130w tested under 50% lpeak]/230%c Ant Surge L:N. 2% Leakage Current Max. 0.5mA Rewing Humidity 20 - 598RH, non-condensing Storge Temperature tite -20 - 42°C to: 90°C Warking Temperature 40 - 80°C/0-59°C Warking Humidity 20 - 598RH, non-condensing Storge Temperature Condensing 200 - 598RH, non-condensing Temperature Condensing 200 - 598RH, non-condensing Overhaad Protection Intelligenty digits of turn of the current output if the PCB temperature and/0°C, automatically recover actomatically forecover actopaut if the PCB temperature and/0°C, automatically recover actopaut if the PCB temperature and/0°C, automatically recover actomatically Withstand Witting UP-0/P-105M0/000PC/272C/705KH Toru Overhaad Protection Intelligenty digits of the recover actomatically Toru Genesa Protection </th <th></th> <td></td> <td colspan="5"></td>							
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Impute Pre-rate prior pri							
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Working Temperature Working Humidity ts20 - 45°C tc: 90°C Working Humidity 20 - 97%RH, non-condensing Storage TemperatureMamidy - 40 - 80°C/10 - 95%RH 20 - 87°C/10 - 95%RH Temperature Coefficient 40 33%/°C/10 - 95%RH Overfoad Protection Automatically protect the device when the load exceeds 102% of the net power. Automatically recover one load is reduced Overfoad Protection Overfoad Protection Automatically protect the device when vottage exceeds the no-load vottage. II. on the PCB temperature - 40°C, automatically recover non Overfoad Protection Short Chruik Protection Enter hiccup mode if short circuit accurs, and recover automatically Withstand Votage 1/P-0/P-100M/300VDC/25°C/70%RH CCC China GB 10510.1, GB 19510.1, 4 TUV Germany EN1347-1, EO1347-2-13, EN62493 CB CB Member States IEC61347-1, IEC61347-2-13 Safety Standards KC Korea K KC Korea Uk. Autaralia AS 51327-1.1 St0327-2-13 Safety Standards IEC6 1347-1, IEC61347-2-13 K RCM Russia IEC6 Europe EN1347-1, EN1437-2-13, EN62493 EN140 Uk. America			Max. 0.	5mA			
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PROTECTION Overheat Protection Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <0°C, automatically recover non Overholtage Protection Short Circuit Protection Enter hiccury mode if short Circuit occurs, and recover automatically Short Circuit Protection Enter hiccury mode if short Circuit occurs, and recover automatically Insulation Resistance I/P-0/P- 100MD/500VDC/25°C/70%RH CC China G819510.1, G819510.14 TUV Germany EN01347-1, EN01347-2.13, EN2493 CB CB Member States IEC61347-1, IEC61347-2.13, EN2493 CE European Union EN01347-1, EN01347-2.13, EN2394 UKCA Britain BS EN 01347-1, EN01347-2.13, EN2394 UKCA Britain BS EN 01347-1, EN01347-2.13, EN2493 UKCA Britain BS EN 01347-1, EN01347-2.13, EN2493 UKCA Britain BS EN 01347-1, EN01347-2.13, EN2493 UKCA Britain BS EN 01327-1		Overload Protection	Automa	tically protect the device	e when the load exceeds 102% of the rated power. Automatically recover once load is reduced		
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SAFETY & EMC Withstand Voltage I/P-0/P: 3750Vac Safety Standards I/P-0/P: 100M0/500VDC/25°C/70%RH CCC China GB19510.1, 6B19510.14 TUV Germany EN41347-1, EN61347-2-13, EN623493 CCC CC CCI CE European Union EN41347-1, EN61347-2-13, EN62344 CCC CC CCI	PROTECTION	Overvoltage Protection					
SAFETY & EMC Insulation Resistance 1/P-0/P: 100M0/500VDC/25°C/70%RH SAFETY & EN1347.1 CC China GB19510.1, GB19510.14 TUV Germany EN41347.1, EN41347.2-13, EN42493 CB CB Member States IEC61347.1, IEC61347.2-13 CE European Union EN41347.1, EN401347.2-13, EN42384 KC Korea KC61347.1, IEC61347.2-13 EAC Russia IEC61347.1, IEC61347.2-13 ENC Europe EN1347.1, EN401347.2-13, EN42384 UKCA Birtain BS Findia BIS India IS 15885 (PART 2/SEC 13) CUL Canada CSA 222, 2N0, 250, 13 UL America UL 8750 CC China GB/117743, GB17625, 1 CE European Union EN5015, EN41000-3-3, EN41547 MCA Birain BS EN IEC 50158, EN41000-3-3, EN41547 CE European Union EN5015, EN41000-3-3, EN41507 CC CR Korea KSC 9817, KSC 9847 EAC Russia IEC62/20, IEC61547, EH55015		Short Circuit Protection					
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EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 Power Consumption Networked standby <0.5W (After shutdown by command)		-					
Power Consumption Networked standby <0.5W (After shutdown by command)		EMC Immunity					
ErP Power Consumption No-load power consumption <0.5W (When the lamp is not connected)							
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Flicker/Stroboscopic Effect CIE SVM Pst LM<1.0, SVM<0.4							
DF Phase factor DF>0.9 OTHERS Weight[N.W.] 170g±10g		Flicker/Stroboscopic Effect					
OTHERS Weight(N.W.) 170g±10g		DE					
UTHERS CONTRACT					DF≥0.9		
UIMENSIONS 142×40×23mm(L×w×H)	OTHERS						
	L	umensions	14Z×4U×	ZUTITILEXWXHJ			

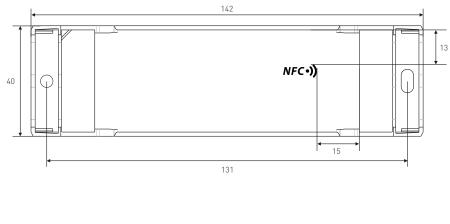
1



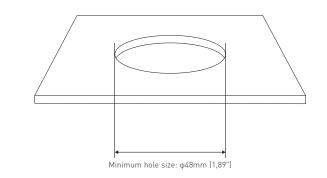


Product Size

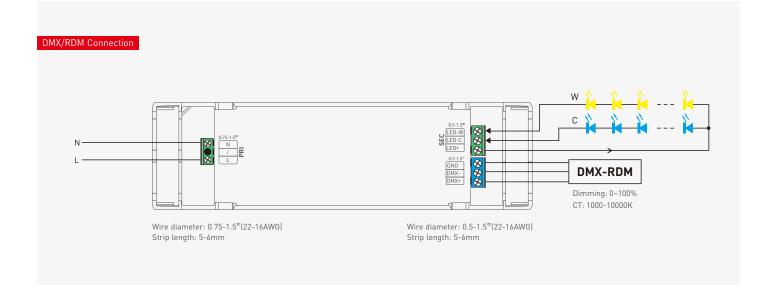
Unit: mm







Wiring Diagram



DMX512/RDM



Table of Typical Corresponding Parameters for Current

The typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1mA step										
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	
	Output Power	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W	5.4-25.2W	5.85-27.3W	
SE-40-300-1050-W2M										
	Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc	9-38Vdc	
	Output Power	6.3-29.4W	6.75-31.5W	7.2-33.6W	7.65-35.7W	8.1-37.8W	8.54-39.9W	9-40W	9.45-40W	

Application Diagram of Protective Cover

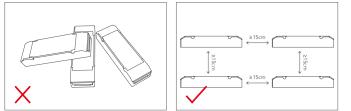


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

Installation Precautions



Please do not stack the products. The distance between two products should be ≥ 15 cm 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.

X





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).



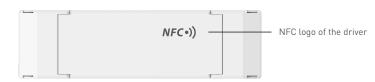
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.

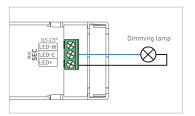
1. Read the LED driver

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.

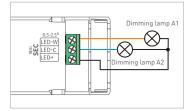


2. Switch the dimming interface

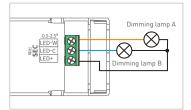
On the page of "Edit parameters", click [Dimming interfaces] to switch to the needed dimming interface: CT, DIM(1 address for 1 channel / 1 address for 2 channels / 2 addresses for 2 channels).



1 address for 1 channel



1 address for 2 channels



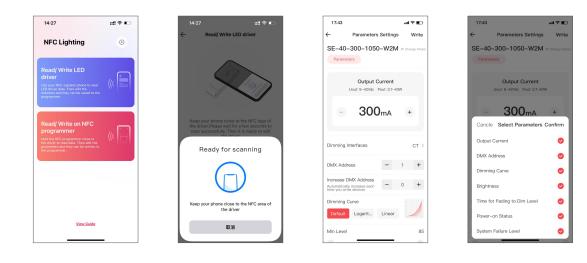
2 addresses for 2 channels

3. Edit the parameters

Click [Parameter settings] to edit the advanced parameters, like output current, DMX address, brightness range, power-on fading time, etc.

4. 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.

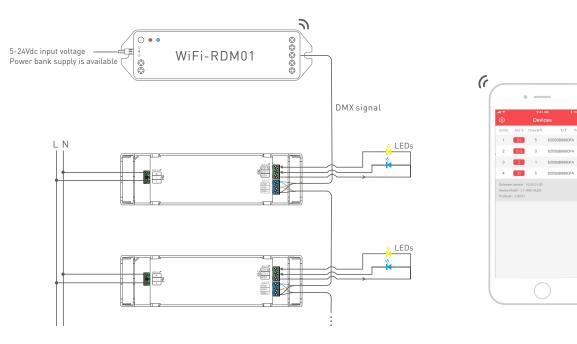






Use with RDM Editor

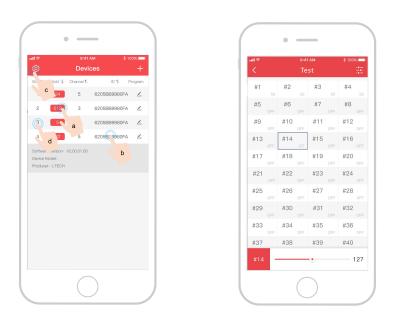
The DMX driver can work with the address editor that complies with standard RDM protocol. It is recommended to use LTECH's RDM editor (model WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:



* the defaulted DMX address of the driver is 1.



Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details.





a: Click "Add", edited the address in corresponding box.

b: Click "ID", get more product details.

c: Click " 🕲 ", enter setting interface.

d: Click "No.", issue the recognizing command.

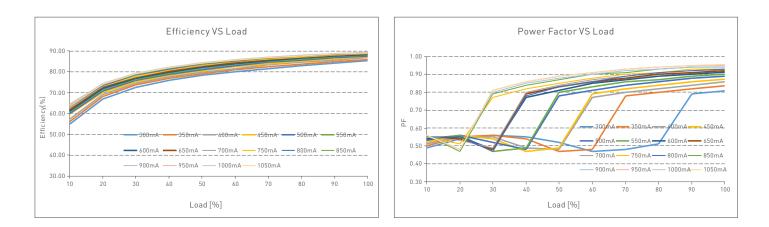
Test

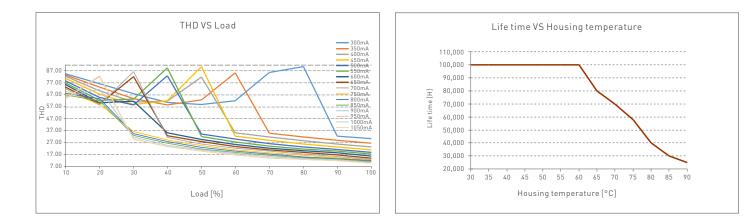
DMX address setting





Relationship Diagrams





Flicker Test Sheet

	IEEE 1789				
Limit of modulation in low risk area					
<i>f</i> ≤ 8Hz	0.2				
8Hz < <i>f</i> ≤ 90Hz	0.025 × f				
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f				
f > 1250Hz	Exemption assessment				
Limit of modulation in no effect area					
<i>f</i> ≤ 10Hz	0.1				
10Hz < f ≤ 90Hz	0.01 × f				
90Hz < <i>f</i> ≤ 3125Hz	[0.08/2.5]× f				
f > 3125Hz	Exemption assessment (High frequency exemption)				

High Frequency Exemption Area Diagram Brightness 100.00% ▲ 0.1% ◆ 1% 1% 5% 10%
20%
30%
40% IEEE 1789 High Risk 10.00% 40% ★ 50%
 ● 60% 70% Modulation(%) 80% ¥ 90% IEEE 1789 No Effect ♦ 100% 1.00% IEEE 1789 Low Risk 0.10% 100 1000 3125 10000 1 10 Frequency(Hz)

Modulation Area Diagram

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.





Packaging Specifications

Model	SE-40-300-1050-W2M
Carton Dimensions	320×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton
Weight	0.17 kg/PC; 7.6 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

- Products shall be installed by gualified professionals.
- LTECH products are and not lightning proof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong 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
A0	2023.09.13	Original version	Liu Weili