

#### 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, 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**



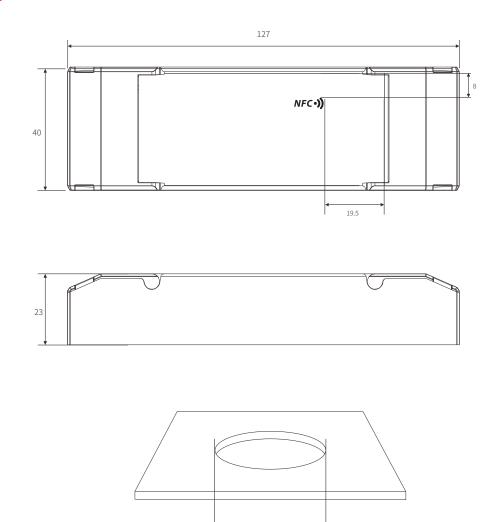
lechnical								
Model		SE-20-1	100-700-W1M					
	Output Type	Constant current						
	Dimming Interface	DMX512/RDM						
Features	Output Feature	Isolation						
	Protection Grade	IP20 Class II (Suitable for class I/ II / III light fixtures)						
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures) 9-42Vdc						
	Output Voltage	9-42VdC ≼48Vdc						
	Maximum output voltage	\$46VUC 100-700mA						
	Output Current Range Output Power Range	0.9W-20W						
OUTPUT	Dimming Range		, down to 0.01%					
	LF Current Ripple	<3%[Maximum current for non dimming state]						
	Current Accuracy	±5%						
	PWM Frequency	≼3600H	Z					
	DC Voltage Range	100-240Vdc						
	AC Voltage Range	100-240Vac						
	DC Current Range	0.09-0.25A						
	Input Voltage	115Vac/230Vac						
	Frequency	50/60Hz						
	Input Current	<0.25A/115Vac, <0.13A/230Vac						
	Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)						
INPUT	THD	THD≤10%/230Vac, at full load						
	Efficiency (Typ.)	84%@700mA (at full load),87%@500mA (at full load)						
	Inrush Current Anti Surge	Cold start 15A(Test twidth=102us tested under 50% lpeak)/230Vac L-N: 2KV						
	Leakage Current	Max. 0.						
	Working Temperature		~ 50°C tc: 80°C					
	Working Humidity		%RH, non-condensing					
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH						
	Temperature Coefficient	±0.03%/°C[0-50°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						
TROTECTION	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		P: 100MΩ/500VDC/25°C					
		CCC TUV	China Germany	GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493				
		101	CB Member States	IEC61347-1, IEC61347-2-13				
		CB						
		CB	European Union					
		CB CE KC	European Union Korea	EN61347-1, EN61347-2-13, EN62384				
	Safety Standards	CE	European Union Korea Russia					
	Safety Standards	CE KC	Korea	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13				
	Safety Standards	CE KC EAC	Korea Russia	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13				
SAFETY	Safety Standards	CE KC EAC RCM	Korea Russia Australia	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13				
&	Safety Standards	CE KC EAC RCM ENEC	Korea Russia Australia Europe	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384				
	Safety Standards	CE KC EAC RCM ENEC UKCA BIS CUL	Korea Russia Australia Europe Britain India Canada	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13				
&	Safety Standards	CE KC EAC RCM ENEC UKCA BIS CUL UL	Korea Russia Australia Europe Britain India Canada America	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750				
&	Safety Standards	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC	Korea Russia Australia Europe Britain India Canada America China	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1				
&		CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE	Korea Russia Australia Europe Britain India Canada America China European Union	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547				
&	Safety Standards	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC	Korea Russia Australia Europe Britain India Canada America China European Union Korea	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547				
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&		CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 [PART 2/SEC 13] CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015				
&	EMC Emission	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CC CE KC EAC RCM UKCA	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547				
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&	EMC Emission	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC CE EAC RCM UKCA CUL UL EN6100 Networl	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENaked standby	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICCS-005 FCC PART 15B				
& EMC	EMC Emission	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE EAC RCM UKCA CUL UL EN6100 Networl No-load	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENG ked standby I power consumption	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <0.5W (After shutdown by command) <0.5W (When the lamp is not connected)				
&	EMC Emission	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE EAC RCM UKCA CUL UL EN6100 Networl No-load IEEE 17	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENA ked standby I power consumption 89	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <0.5W (After shutdown by command] <0.5W (When the lamp is not connected] Meet IEEE 1789 standard/High frequency exemption level				
& EMC	EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE EAC RCM UKCA CUL UL EN6100 Networl No-load IEEE 17 CIE SVM	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENG ked standby I power consumption 89 4	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN 61547 IEC52493, IEC61547, EH55015 EN55015, EN IEC 50105, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <0.5W (After shutdown by command) <0.5W (When the lamp is not connected) Meet IEEE 1789 standard/High frequency exemption level Pst LM≤1.0, SVM≤0.4				
& EMC	EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect DF	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE EAC RCM UKCA CUL UL EN6100 Networl No-load IEEE 17 CIE SVM Phase for	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENG ked standby I power consumption 89 4 actor	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <0.5W (After shutdown by command] <0.5W (When the lamp is not connected] Meet IEEE 1789 standard/High frequency exemption level				
& EMC	EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect	CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC CE EAC RCM UKCA CUL UL EN6100 Networl No-load IEEE 17 CIE SVM Phase fr 105g±10	Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Britain Canada America D0-4-2,3,4,5,6,8,11, ENG ked standby I power consumption 89 4 actor	EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, AS 61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN 61547 IEC52493, IEC61547, EH55015 EN55015, EN IEC 50105, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005 FCC PART 15B 61547 <0.5W (After shutdown by command) <0.5W (When the lamp is not connected) Meet IEEE 1789 standard/High frequency exemption level Pst LM≤1.0, SVM≤0.4				



# DMX512/RDM

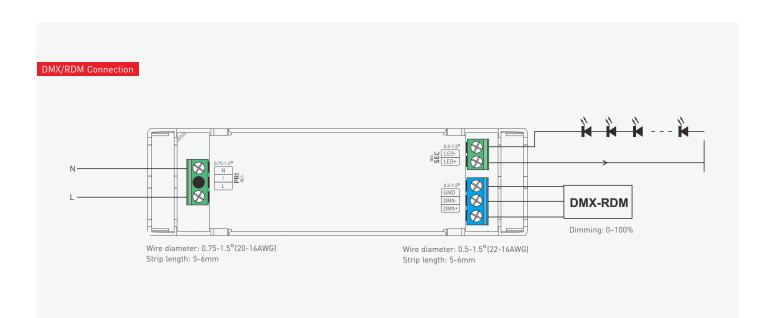
#### Product Size

Unit: mm



Minimum hole size:  $\phi$ 48mm (1,89")

Wiring Diagram



DMX512/RDM



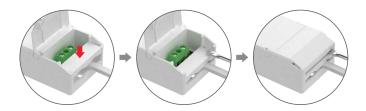
### Table of Typical Corresponding Parameters for Current

The typical 13 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-700mA adjustable in 1mA step									
Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA		
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc		
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W		
Output Current	450mA	500mA	550mA	600mA	650mA	700mA	/		
Output Voltage	9-42Vdc	9-40Vdc	9-37Vdc	9-34Vdc	9-31Vdc	9-28.5Vdc	/		
Output Power	4.05-18.9W	4.5-20W	4.95-20.35W	5.4-20.4W	5.85-20.15W	6.3-19.95W	/		

### Application Diagram of Protective Cover

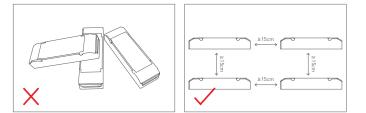


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

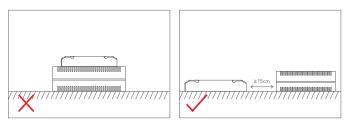


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

## **Installation Precautions**



Please do not stack the products. The distance between two products should be >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.

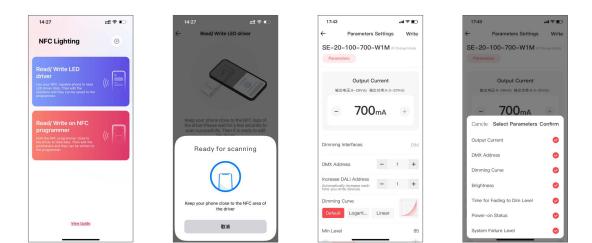


#### 2. Edit the parameters

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

#### 3. Write to the driver

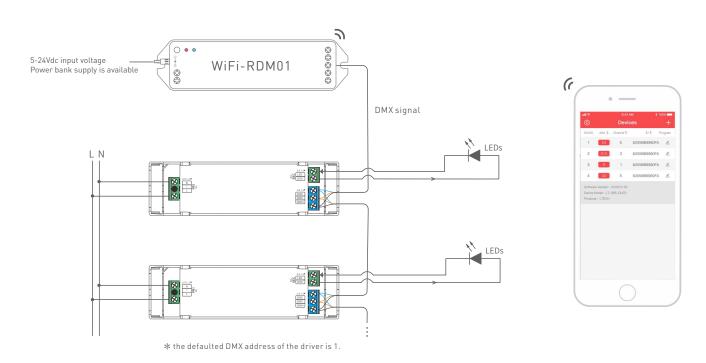
After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.





#### 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:



# LTECH RDM editor App interface instruction

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



att≑ <					
#1		#2	#3	#4	
#5		#6	#7	#8	
#9	OFF	#10	#11	#12	
#13		#14	#15	#16	
		#18	#19	#20	
#21		#22	#23	#24	
#25	OFF	#26	#27	#28	
#29		#30	#31	#32	
#33	OFF	#34	#35	#36	
#37		#38	#39	#40	
#14			 •	1	2

Test



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

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

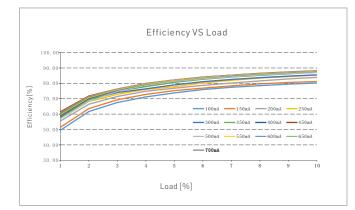
c: Click " 🕲 ", enter setting interface.

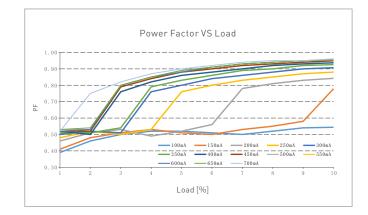
d: Click "No.", issue the recognizing command.

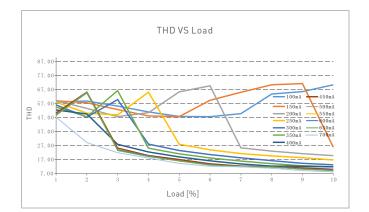
DMX address setting

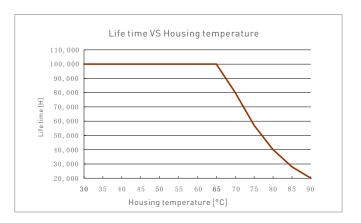


## **Relationship Diagrams**









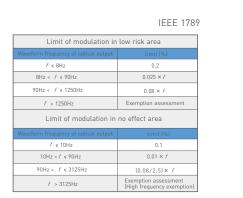
Modulation Area Diagram

High Frequency Exemption Area Diagram

SE-20-100-700-W1M

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Flicker Test Sheet

Brightness 100.00% 🔺 0.1% 1% ▲ 5%
 ◆ 10%
 ● 20% IEEE 1789 High Risk 30% 10.00% 40% **\*** 50% 60% 70% Modulation(%) 80% 90% IEEE 1789 No Effect **♦** 100% 1 00% IEEE 1789 Low Risk 0.10% 1 10 100 1000 3125 10000 Frequency(Hz)

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.

#### www.ltech.cn



## **Packaging Specifications**

Model	SE-20-100-700-W1M
Carton Dimensions	290×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton
Weight	0.11 kg/PC; 5.2 kg土5%/Carton

# Packaging Image



Inner Packaging Box



Carton Packaging



# Transportation and Storage

ТЕСН

#### 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 qualified professionals.
- LTECH products are and not lightningproof 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
AO	2023.11.9	Original version	Yang Weiling