

DMX512/RDM

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



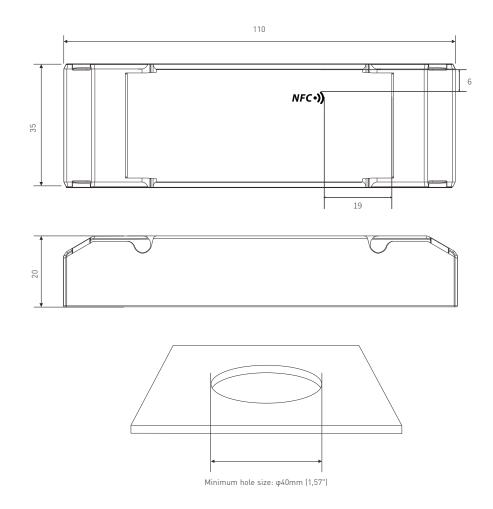
Peatures Output Type Constant current Dimming Interface DMXS12/RDM Output Feature Isolation Protection Grade IP20 Insulation Grade Class II (Suitable for class I/ II /III light fixtures) Output Voltage 9-42Vdc Maxium output voltage 9-42Vdc Output Current Range 100-500mA Output Power Range 0.9-100%, down to 0.01% LF Current Ripple <3%(Maximum current for non dimming state) Current Accuracy ±5% PWM Frequency <3600Hz DC Voltage Range 100-240Vdc AC Voltage Range 100-240Vdc Input Voltage 115Vac/230Vac Frequency 0.06-0.16A Input Current <0.084/320Vac Power Factor PF:0.05/115Vac (at full load), PF:0.9C/230Vac (at full load) Input Current	Model		SE-12-1	00-500-W1M			
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Input Vision UPSUPE Freewary 0500±		AC Voltage Range	100-240Vac				
Image: Programmer instruction Construction Construction Figure: Prover Factor PC 2000000000000000000000000000000000000		DC current range	0.06-0.1	0.06-0.16A			
Input conversion Pape Factor		Input Voltage	115Vac/230Vac				
Image: Processor: Processor: Processor: Image: The Control Tobe Contro Tobe Contro Tobe Contro <th></th> <td>Frequency</td> <td colspan="4"></td>		Frequency					
IPU TP0_0_10%23/04_cc_nt full load Efficiency (Typ) 56/56030m4(act full load) Inrush Current Cold sart 154/Test twith=TiCus tested under 90% lpask/230/sc_ Anti Surge L+k 2W Kaskage Current Max. 15.nL ENVEROMENT Strage Chromotome Verking Temperature Tal -20 - 50°C (t: 60°C Type 20 - 95% RH, none-condensing ENVEROMENT Strage Chromotome Strage Chromotome 40.00%/Cl:0.5% Cl Verking Temperature Charticy (c) 5% Cl Verking Temperature Charticy (c) 5% Cl Verking Automatically protect the device when the load exceeds 102% of the raide power. Automatically recover ance load is reduced Overhad Protection Automatically protect the device when the load exceeds 102% of the raide power. Automatically recover ance load is reduced Overhad Protection Automatically protect the device when the load exceeds 102% of the raide power. Automatically recover ance load is reduced Overhad Protection Automatically protect the device when the load exceeds 102% of the raide power. Automatically recover ance load is reduced Overhad Protection Automatically protect the device when the load exceeds 102% of the raide power. Automatically recover ance load is reduced Overhad Protection		Input Current	<0.18A/115Vac, <0.08A/230Vac				
Enciency [Tp]-1 84%8300mAde thul loadi. 82%850mAde thul loadi Insub Current Cold start 154/Test twidth=102us tested under 50% lpeak/220%c Anti Surge L-N. 2% Lexkage Current Mar. 0.5mA Working Imperature 1z - 20.5 ± 50° Lt. 80° L Storage Tempentature(tunder) 20.95%.RH, non-condensing ENVIRONMENT Storage Tempentature(tunder) 20.95%.RH, non-condensing Vierking Imperature 10.03%/Cl0.90° Cl Vierking Imperature Vierking Imperature Coefficient 10.03%/Cl0.90° Cl Vierking Imperature Missional Condensity 20.95%.RH, non-condensing Uncondensity 20.95%.RH, non-condensing PROTECTIO Devinal Protection Automatically recover on the load exceed 102% of the rated power. Automatically recover once load in reduced Outrical Protection Automatically roteck: rate with the load exceed 102% of the rated power. Automatically recover once load in reduced Outrical Protection Intelligener day day of the rund for the current output in the POSE tempenature s110°C. Outrical Protection Automatically roteck: rate with recover automatically Source Transmitter Starter Intelligener day is the size intelligener starter intelligener starter intelligene storage storage starter intelligener starter intelligener starte		Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)				
Insush Current Cold start 15/Tots leadth-102/us tested under 50% (peak/230%)c And Surge And Surge Cold start 15/Tots leadth-102/us tested under 50% (peak/230%)c Max. 0.5m2 Serio Current ts -20 - 50°C tot 80°C Merking Temperature ts -20 - 50°C tot 80°C Tots 80°C Temperature Condition 20 - 59%KH Anon-condensing Tots 80°C Temperature Condition 20 - 50%KH Tots 80°C Temperature Condition 20 - 50%KH Tots 80°C Temperature Condition 20 - 50%KH Tots 80°C Temperature Condition Automatically pretection to 100 access 102% of the rated power. Automatically recover once load is reduced Overhaal Protection Intelligently adjust or turn of the current subpit if the CSD temperature 310°C. Overhaal Protection Intelligently adjust or turn of the current subpit if the CSD temperature 310°C. Tot Circuit Protection Intervert accurs, and recover automatically Tot Circuit Protection Intervert accurs, and recover automa	INPUT	THD	THD≼10%/230Vac, at full load				
Ani: Surg L-N: 2V Lakage Current Max: 0: 5nA Working Temperature 1a: -20 - 50°C tc: 80°C Working Temperature 20 - 55%-Rt content Storage Temperature/Rundity 20 - 55%-Rt content Temperature Ceefficient 40.03%/CIC-50°Cl Working Temperature 40.03%/CIC-50°Cl Working Temperature Ceefficient 40.03%/CIC-50°Cl Working Temperature Ceefficient Automatically protect the device when the load exceeds 12% of the rated power. Automatically recover once load is reduced Overhad Protection Automatically protect the device when value acceeds the no-load value. It can be recovered automatically Overhad Protection Enter Fuccur mode if short Circuit excurs, and recover automatically Short Circuit Protection Enter Fuccur mode if short Circuit excurs, and recover automatically Vishtand Voltage (IP-0/F): 100M/DS0VC/C25 Totu UP-0/F): 100M/DS0VC/C25 Totu Gene ENTEr Fuccur and Exceeds 11PC Alary 2-13. ENAGARA CE Europa Union ENAI3/27-13. ENAI3/27-213 Read K6 ClaY-1, ICC 313/27-213 Read Gene ENAI3/27-1.16X Alary 2-13. ENAI3/28 Ren		Efficiency (Typ.)					
Laskage Current Max. 0.5mA Working Hemiparture tat - 20 - 50°C tc: 0°C Working Hemiparture tat - 20 - 50°C tc: 0°C Working Hemiparture tat - 20 - 50°C tc: 0°C Temperature Control -0.0°C/10-990RH Storage Temperature/Humidy -0.0°C/10-990RH Temperature Control -0.0°C/10-990RH Overload Protection Automatically protect the device when the load exceeds 10°C. Overload Protection Automatically protect the device when with age exceeds 10°C. Overload Protection Automatically protect the device when with age exceeds 10°C. Overload Protection Automatically protect the device when with age exceeds 10°C. Overload Protection Automatically protect the device when with age exceeds 10°C. Overload Protection Exceed Tricury and an device when with age exceeds 10°C. Shord Groud Protection Exceed Tricury and an device when with age exceeds 10°C. North Groud Protection Exceed Tricury and an device when with age exceeds 10°C. North Groud Protection Exceed Tricury an device when with age exceeds 10°C. Insulation Resistance 1/P-0/P.100M/NOVD/C5°C/T0%RH Insulation Resistance 1/P-0/P.100M/NOVD/C5°C/T0%RH </th <th></th> <td>Inrush Current</td> <td colspan="4">Cold start 15A(Test twidth=102us tested under 50% peak)/230Vac</td>		Inrush Current	Cold start 15A(Test twidth=102us tested under 50% peak)/230Vac				
SAFEY* Working temperature tat::::::::::::::::::::::::::::::::::		Anti Surge	L-N: 2KV				
Working Humidity 20 - 95%RH, non-condensing Storage Imperature/Humidity -40 - 80°C/10 - 95%RH Temperature Coefficient 40.03%/PC(0.50°C) Temperature Coefficient 0.03%/PC(0.50°C) Overload Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Overload Protection Intelligent/agiust or turn off the current output if the PCB temperature >110°C. Overload Protection Enter hiccup model if short Circuit Records, and recover automaticality Short Circuit Protection Enter hiccup model if short Circuit Records, and recover automaticality Short Circuit Protection (Po-OP-) 205%VC Insulation Resistance (PO-OP-) 205%VC Insulation Resistance (PO-OP-) 205%VC CE European Union EN4 (CC Konia CE European Union EN4 (SA) Rotalia/1, EG (1347-1, EG (1347-2-13, EN2203 CE European Union EN4 (SA) Rotalia No Add Rotalia CE European Union EN4 (SA) Rotalia/1, EG (1347-1, 16) (247-2-13, EN2203 CE		Leakage Current	Max. 0.5mA				
ENVIRONMENT Sarage "imperature/Juniid"y 40.8%/PCI0-5%/RH Imperature Coefficient 40.0%/PCI0-5%/RH 40.0%/PCI0-5%/RH Vibration 10-500Hz, 26 12min/lrcyte, 72 min for X, Y and Z axes respectively Overhaal Protection Automatically protect the device when the load exceeds 102% of the rade power. Automatically recover once load is reduced Overhaal Protection Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically Short Circut Protection Enter hickgen vigota is than t circuit occurs, and recover automatically Withstand Voltage IP-0/P-3750Vac Insulation Resistance (IP-0/P-3750Vac Insulation Resistance (IP-0/P-3750Vac CE Consen E001950.1, 6019510.14 TUV Germany EN41347-1, EN41347-2-13, EN42493 CE Longen Union EN41347-1, EN41347-2-13, EN42493 CE Europee EN41347-1, EN41347-2-13, EN42493 KK Korea KC61347-2-13 RCM Australia A561347-1, EN41347-2-13, EN42493 CE Europee EN41347-1, EN41347-2-13, EN42493 UKCA Britain B558/RAT7 255 C		Working Temperature	ta: -20 ~ 50°C tc: 80°C				
Temperature Coefficient 40.03%/PCI0.897Cl Vibration 10-5004z, 28 12hm/1cycle, 72 min for X, Y and Z axe respectively Overheal Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Overheal Protection Intelligently adjust or turn off the current output if the PCB temperature 310°C. Overheal Protection Enter hiccur mode if short curcuit occurs, and recover automatically Short Circuit Protection Enter hiccur mode if short curcuit occurs, and recover automatically Short Circuit Protection Enter hiccur mode if short curcuit occurs, and recover automatically Insulation Resistance (<i>IP-OP</i>): 100M/0500VD/25°C/70%RH Insulation Resistance (<i>IP-OP</i>): 100M/0500VD/25°C/70%RH CE CC China GB19510.1, 6B19510.14 CE European Union EN41347-1, EN41347-7-13, EN42493 CE European Union EN41347-1, EN41347-7-13, EN42493 CE European Union EN41347-1, EN41347-7-13, EN42493 CE European Union EN41347-1, EN41347-7-13, EN42344 CE European Union EN41347-1, EN41347-7-13, EN42344 EAC Ruxai CEG 1347-1, EN1347-7-13,		Working Humidity	20 ~ 95%RH, non-condensing				
Vibration 10-500Hz, 20 12min/1cycle, 72 min for X, Y and Z axes respectively Overhaal Protection Automatically protect the device when the load axceeds. 102% of the access 102% of the a	ENVIRONMENT	Storage Temperature/Humidity					
SAFETY & EMC Derivation Derivation Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced SAFETY & EMC Intelligently adjust or turn off the current output if the PCB temperature stillore. Deventage Protection Automatically protect the device when the load exceeds 102%. If the PCB temperature stillore. Deventage Protection Short Circuit Protection Enter hiccup mode if short circuit occurs, and recover automatically If the PCB temperature stillore. Withstand Voltage I/P-O/P: 100M/0500VDC/25°C/70% RH Enter hiccup mode if short circuit occurs, and recover automatically Safety Standards CCC China 0819510.1,0819510.14 CCE Lingapa Exception ENCE 100M/0500VDC/25°C/70% RH CCE Contage		Temperature Coefficient					
PROTECTION Intelligently adjust or turn off the current output if the PCB temperature >110°C. Overvoltage Protection Autom=tically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically Short Circuit Protection Enter Hiccur poole is short Circuit Protection Enter Hiccur poole Withstand Voltage (PD)P-1000/S00VDC/25°C/07% RH Insulation Resistance (P-D)P-1000/S00VDC/25°C/07% RH Safety Standards CCC China GB19510.1, GB19510.14 CCC China GB19510.1, GB19510.14 CCC CDina GB19510.1, GB19510.14 CCC CDina GB19510.1, GB19510.14 CCC CDina GB19510.1, GB19510.14 GCC CDina GB19510.1, GB19510.14 CCC CDina GB19510.1, GB19510.14 GCC CDina GB19510.1, GB19510.14 CCC CDina GB19510.1, GB19510.14 GCC CDina CB10347-1, EX01347-2-13, EX02343 GCC Evropean Union EX01347-1, EX01347-2-13, EX02344 GCE Evropean EN51347-1, EX01347-2-13, EX02344 GCC CCC		Vibration					
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$\begin{tabular}{ c c c c } \hline Ficker/Stroboscopic Effect field for the second field field$							
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$\begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \hline \end{tabular} $			RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
$\begin{tabular}{ c c c c } \hline \hline \begin{tabular}{ c c c c } \hline \hline \end{tabular} $			UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547		
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Power Consumption No-load power consumption <0.5W (When the lamp is not connected)		EMC Immunity					
FrP No-load power consumption <0.5W (When the lamp is not connected)		Power Consumption	Networked standby		<0.5W (After shutdown by command)		
Flicker/Stroboscopic Effect CIE SVM Pst LM<1.0, SVM<0.4			No-load	power consumption	<0.5W (When the lamp is not connected)		
CIE SVM Pst LM<1.0, SVM<0.4	ErP	Flicker/Stroboscopic Effect -	IEEE 17	89	Meet IEEE 1789 standard/High frequency exemption level		
OTHERS Weight(N.W.) 85g±10g			CIE SVM	1	Pst LM≤1.0, SVM≤0.4		
UTHERS		DF	Phase factor		DF≥0.9		
Dimensions 110×35×20mm(L×W×H)	OTHERS	Weight(N.W.)	85g±10g	J			
	UTTERS	Dimensions	110×35×	20mm(L×W×H)			





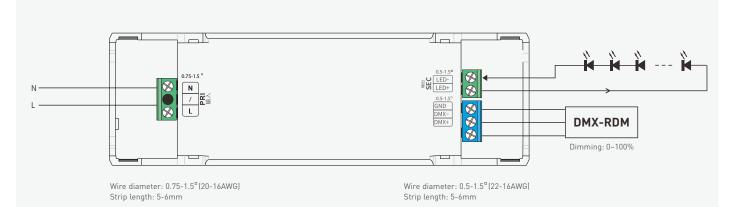
Product Size

Unit: mm



Wiring Diagram

DMX/RDM Connection





LTECH

Table of Typical Corresponding Parameters for Current

The typical 9 current data set	he typical 9 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-500mA adjustable in 1mA step						
Output Current	100mA	150mA	200mA	250mA	300mA		
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc		
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W		
Output Current	350mA	400mA	450mA	500mA	/		
Output Voltage	9-34Vdc	9-30Vdc	9-27Vdc	9-24Vdc	/		
Output Power	3.15-11.9W	3.6-12W	4.05-12.15W	4.5-12W	/		

Protective Housing Application Diagram



 1. Use a tool to pry up the protective
 2. Pry

 housing on the side panel.
 in the



 Connect to electrical wires with a screwdriver as wiring diagram shows.

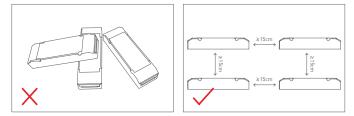


4. Press down the tension plate to fix the the electrical wires.

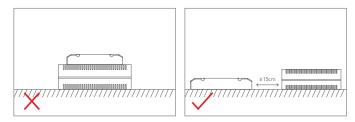


DMX512/RDM

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.

^{5.} Close the protective housing.





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).



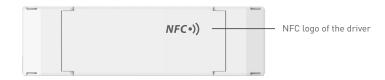
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.

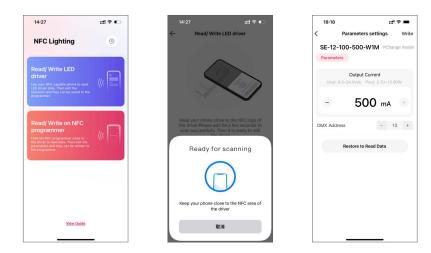


2. Edit the parameters

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.

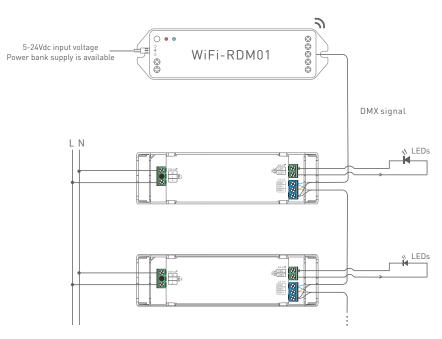






Use with RDM Editor

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:





st the defaulted DMX address of the driver is 1.

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.



ut≑ <		II AM 川试	\$ 100%
#1	#2	#3	#4
#5 OFF	#0		#8 OFF
#9 OFF		#11 OFF	#12 OF
#13 OFF	#14	#15 OFF	#16 OF
#17 OFF	#18	#19	#20 OF
#21		#23	#24 OF
#25 OFF	#26		
#29 OFF	#30	#31 OFF	#32 OF
#33 OFF		#35 OFF	#36 OFF
#37	#38	#39	#40
#14		•	127

Test

发送
~
4
8
12
16
20
24
28
32

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

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

c: Click " ③ ", enter setting interface.

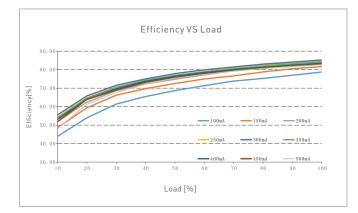
d: Click "No.", issue the recognizing command.

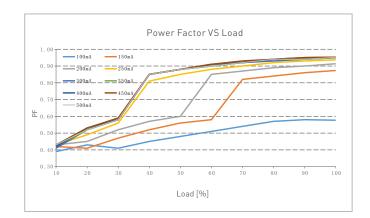
DMX address setting

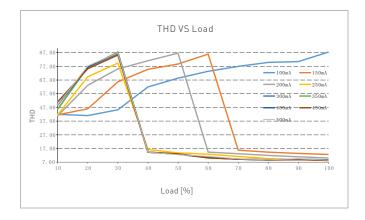


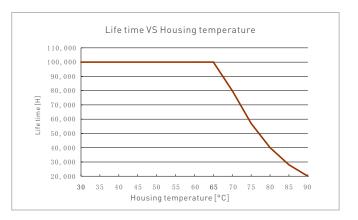


Relationship Diagrams

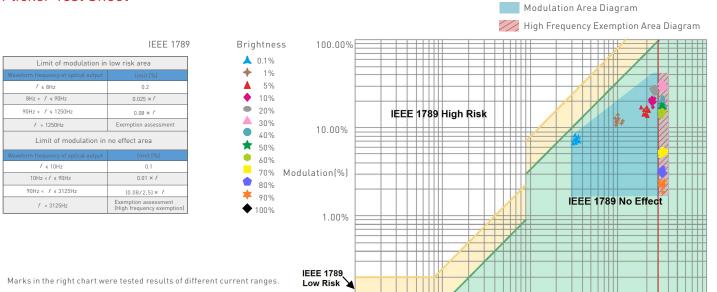








SE-12-100-500-W1M



0.10%

1

10

100

Frequency(Hz)

1000

3125

10000

Flicker Test Sheet

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-12-100-500-W1M
Carton Dimensions	260×240×215mm(L×W×H)
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton
Weight	0.095 kg/PC; 9.5 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

- This product must be installed and adjusted by a qualified professional.
- 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 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: 2 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	20231028	Original version	Yang Weiling