

General

Product Type	Constant Voltage Driver
Length (mm)	352
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	435

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Input Current max (A)	0.75A @ 230V AC
Output Voltage	24V DC
Output Current (mA) max/output	1560
Output Current Max. (A)	6.25
Output Power Range (W)	0~150
Power Factor at Full Load	+0.98 @ 230VAC
LED Outputs	4
Anti Surge	L-N: 2kV
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
THD (at full load)	6% @ 230V AC
Input Frequency	50 ~ 60Hz
Inrush Current	45A @ 230VAC

Lighting

Color Range	RGBW	
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Control

Output Signal	PWM-CV
Control	DMX, DALI DT8
Dimming Range	0~100%
Number of Channels	4

Protection

Protection Class

Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20
Safety Standards	NEN-EN-IEC 61347-1,
	NEN-EN-IEC 61347-2-13,





Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



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Intelligent Full Color RGBW LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTRO uses.
- The clamshell design and screwless type for strain-relief. The design of dismountable end cap allows you to adjust the length of housing depending on your needs.
- · With soft-on and fade-in dimming function, enhancing your visual comfort.
- Dimming from 0~100%, down to 0.1%.
- Dimming interface: DMX512/RDM, DALI-2 DT6/DT8, Push DIM/RGB.
- Energy-efficient driver: Effeciency 93%, PF>0.98, THD<6%.
- Comply with the EU's ErP Directive, stand-by power consumption<0.5W.
- The secure and reliable design for signal isolation.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- · Overheat, overvoltage, overload, short circuit protection and automatic recovery.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).





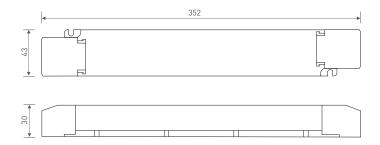


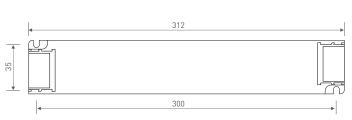


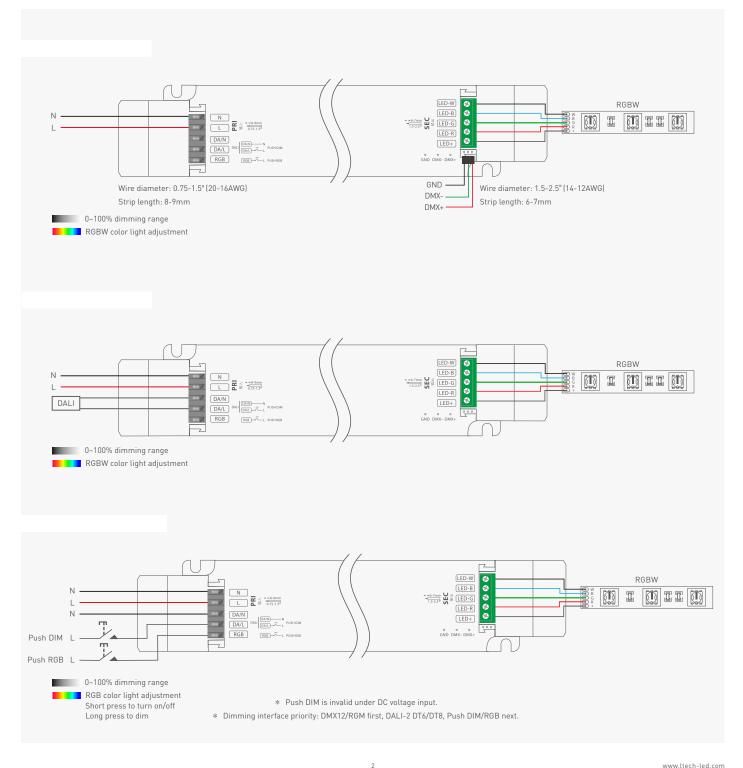


Model		LM-150-24-0	94K3				
	Output Type	Constant Voltage					
	Dimming Interface	DMX12/RDM, DALI-2 DT6/DT8, Push DIM/RGB					
Features	Output Feature	Isolation					
	Protection Grade	IP20					
	Insulation Grade	Class II (Suit	able for class I/ II /III li	ght fixtures)			
	Output Voltage	24Vdc					
	Output Voltage Range	24Vdc ± 0.5Vdc					
	Output Current	Max. 6.25A (1.56Ax4CH)					
	Output Power	Max. 150W					
	Output Power Range	0~150W					
OUTPUT	Strobe Level	High frequency exemption level					
	Dimming Range	0~100%, down to 0.1%					
	Overload Power Limitation	≥102%					
	Ripple	Switch ripple<150mV, noise<300mV					
	PWM Frequency	3600Hz					
	DC Voltage Range	200-280Vdc					
	AC Voltage Range	198-264Vac					
	Rated Voltage	220-240Vac					
	Frequency	50/60Hz					
	Input Current	<0.75A/230\	/ar				
	Power Factor	 					
INPUT	THD		PF>0.98/230Vac (at full load)				
	Efficiency (typ.)	THD<6%@230Vac (at full load) 93%					
	Standby power consumption	<0.5W					
	Inrush Current	Cold start 45A@230Vac (Test twidth=840us tested under 50% peak)					
	Anti Surge	L-N: 2KV					
	Leakage Current	Max. 0.5mA					
	Working Temperature	ta: -20 ~ 50°					
	Working Humidity		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				
	Overheat Protection			utput current if the PCB temperature >110°C, and recover automatically			
	Overload Protection		-				
PROTECTION	Short Circuit Protection	Shut down the output when current load > 102%, and recover automatically Enter biccup mode if short circuit occurs, and recover automatically.					
	Overvoltage Protection	Enter hiccup mode if short circuit occurs, and recover automatically Shut down the output when non-load voltage>28V, and recover automatically					
	Withstand Voltage	I/P-0/P: 3750Vac					
	Isolation Resistance	//P-0/P: 3750VaC I/P-0/P: 100MΩ/500VDC/25°C/70%RH					
		I CCC	China	GB19510.1. GB19510.14			
			China Germany	GB19510.1, GB19510.14 FN61347-1. FN61347-2-13. FN62493			
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
		TUV CB	Germany CB member states	EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13			
	Safety Standards	TUV CB CE	Germany CB member states European Union	EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384, EN61547			
SAFETY	Safety Standards	TUV CB CE KC	Germany CB member states European Union Korea	EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384, EN61547 KC61347-1, KC61347-2-13			
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&	Safety Standards EMC Emission	TUV CB CE KC EAC RCM EMEC CCC CE	Germany CB member states European Union Korea Russia Australia Europe China European Union	EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384, EN61547 KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547			
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Unit: mm







Push DIM/RGB



- Reset switch
- On/off control: Short press.
- Stepless dimming: Long press.
- \bullet With every other long press, the brightness goes to the opposite direction.
- \bullet Dimming memory: Brightness will be the same as previously adjusted when lights are turned on.

Tension plate



1. Pry up the protecting housing 2. Connect to electrical wires in the side plate position with a



with a screwdriver as wiring diagram shows.



3. Press down the tension plate to fix the the electrical wires, then close the protective housing.

Remove the protective housing



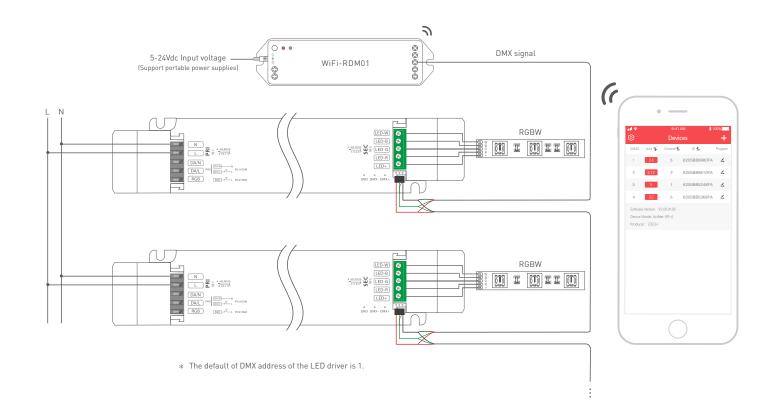




Pull the housing left and right from the bottom to remove it.

The DMX driver can work with a DMX address programmer that follows the standard RDM protocol.

It is recommended to use LTECH RDM Programmer (Model: WiFi-RDM01), which allows remote browsing, parameter setting, checking output power and modifying the current value.

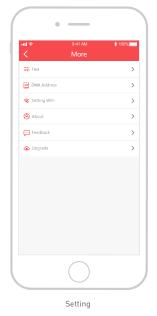


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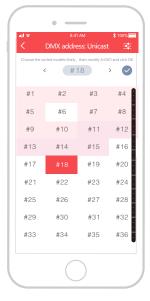
Download the App with your mobile phone and connect the RDM Programmer successfully, then you are allowed to set parameters through the APP. Please refer to the WiFi-RDM01 manual for more details.

- a. At the homepage, click "Add" of the device you are going to operate to edit the address, as shown below in the interface.
- b. Click "ID" to get more details for devices.
- c. Click "No" to issue an recognizing command.
- d. Click " 🚣 " to view/modify parameters, including modifying frequency, mode, curve, querying output power and modifying current.
- e. Click " 👸 " in the upper left corner to access the settings which allows you to test, edit DMX addresses, set WiFi for devices and upgrade firmware.



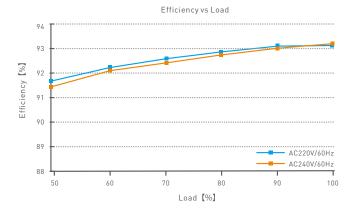


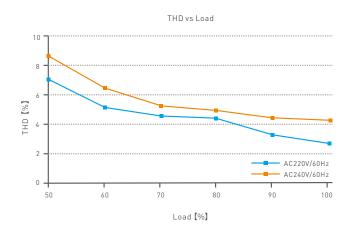


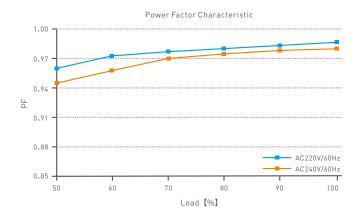


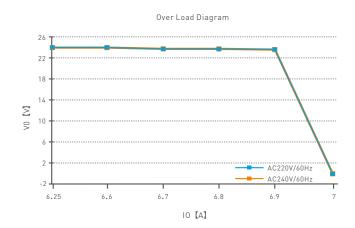
Test

DMX address setting









IEEE 1789

Brightness

▲ 0.1% Limit value of Modulation in Low Risk Areas 1% 5% f ≤ 8Hz 10% 0.025 × f 20% 90Hz < f ≤ 1250Hz 30% 0.08 × f 40% f > 1250Hz Exemption assessment 50% Limit value of Modulation in No Effect Areas 60% 70% 80% f ≤ 10Hz 90% 10Hz < f ≤ 90Hz 0.01 × f 100% 90Hz < f ≤ 3125Hz $(0.08/2.5) \times f$ Exemption assessment (High frequency exempt f > 3125Hz

Exemption assessment (High frequency exemption) **▲+▲**♦●▲●★●**■**●**★**◆ **IEEE 1789** 100% High Risk 10% Modulation[%] No Effect(green) 1% Low Risk(yellow) 0.1% 10 100 1000 3600Hz 10000 Frequency(Hz)

Marks in the right chart are tested results of different current levels. The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

Model	LM-150-24-G4K3
Carton Dimensions	370×340×93mm(L×W×H)
Quantity	10 PCS/Layer; 2 Layers/Carton; 20 PCS/Carton
Weight	0.43 kg/PC; 9.4 kg/Carton







Carton Packaging

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.

- · Products shall be installed by qualified professionals.
- LTECH products are 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 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 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
Α0	2021.08.05	Original version	Liu Weili

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