

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.
- Dimming from 0~100%, down to 0.1%.
- Dimming interface: DMX512/RDM, DALI-2 DT6/DT8, Push.
- 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).









































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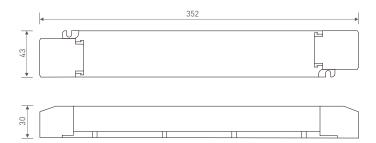
Technical Specs

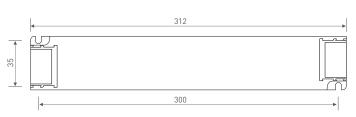
Model		I M 150	37 C7K3				
	Output Type		50-24-G4K3 tant Voltage				
	. , , ,			70 P. I			
Features	Dimming Interface	 	DMX12/RDM, DALI-2 DT6/DT8, Push				
	Output Feature	Isolation					
	Protection Grade	IP20					
	Insulation Grade	Class II (Suitable for class I/ II / III light fixtures)					
OUTPUT	Output Voltage	24Vdc					
	Output Voltage Range	24Vdc ±	24Vdc ± 0.5Vdc				
	Output Current	Max. 6.25A (1.56Ax4CH)					
	Output Power	Max. 150W					
	Output Power Range	0~150W					
	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 Input Current	50/60Hz					
INPUT	- '	€0.75A/230Vac					
	Power Factor	PF>0.98/230Vac (at full load)					
	THD	THD<6%@230Vac (at full load)					
	Efficiency (typ.)	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°C tc: 85°C					
		20 ~ 95%RH, non-condensing					
	Working Humidity	20 ~ 959	6RH, non-condensing				
ENVIRONMENT	Working Humidity Storage Temperature/Humidity		6RH, non-condensing °C, 10~95%RH				
ENVIRONMENT		-40 ~ 80					
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80 ±0.03%/	°C, 10~95%RH °C (0-50°C)	min for X, Y and Z axes respectively			
ENVIRONMENT	Storage Temperature/Humidity Temperature Coefficient	-40 ~ 80 ±0.03%/ 10~500F	°C, 10~95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72	min for X, Y and Z axes respectively ne output current if the PCB temperature ≽110°C, and recover automatically			
	Storage Temperature/Humidity Temperature Coefficient Vibration	-40 ~ 80 ±0.03%/ 10~500F Intellige	°C, 10~95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off th				
ENVIRONMENT	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection	-40 ~ 80 ±0.03%/ 10~500H Intellige Shut dov	°C, 10-95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off the output when cur	ne output current if the PCB temperature >110°C, and recover automatically rent load>102%, and recover automatically			
	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection	-40 ~ 80 ±0.03%/ 10~500H Intellige Shut dow	°C, 10-95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off the output when curecup mode if short circu	ne output current if the PCB temperature ≥110°C, and recover automatically			
	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection	-40 ~ 80 ±0.03%/ 10~500H Intellige Shut dov Enter his	°C, 10-95%RH °C (0-50°C) Iz, 26 12min/1cycle, 72 ntly adjust or turn off the wind the output when curecup mode if short circuwn the output when nor	ne output current if the PCB temperature >110°C, and recover automatically rent load > 102%, and recover automatically uit occurs, and recover automatically			
	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection Withstand Voltage	-40 ~ 80 ±0.03%/ 10-500H Intellige Shut dov Enter hid Shut dov I/P-0/P:	°C, 10-95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off the summer of	ne output current if the PCB temperature >110°C, and recover automatically rent load>102%, and recover automatically uit occurs, and recover automatically n-load voltage>28V, and recover automatically			
	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection	-40 ~ 80 ±0.03%/ 10-500H Intellige Shut dov Enter hi Shut dov I/P-0/P: I/P-0/P:	°C, 10-95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off the summer of	ne output current if the PCB temperature >110°C, and recover automatically rent load>102%, and recover automatically uit occurs, and recover automatically n-load voltage>28V, and recover automatically 70%RH			
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	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection Withstand Voltage Isolation Resistance	-40 - 80 ±0.03%/ 10-500l- Intellige Shut dov Enter hir Shut dov I/P-0/P: I/P-0/P: CCC TUV CB CE	°C, 10-95%RH °C (0-50°C) Iz, 2G 12min/1cycle, 72 ntly adjust or turn off the output when cure coup mode if short circum the output when nor 3750Vac 100MΩ/500VDC/25°C/1 China Germany CB member states European Union	ne output current if the PCB temperature >110°C, and recover automatically rent load>102%, and recover automatically uit occurs, and recover automatically n-load voltage>28V, and recover automatically 70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13			
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PROTECTION SAFETY &	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection Withstand Voltage Isolation Resistance Safety Standards	-40 - 80 ±0.03%/ 10-500h Intellige Shut dov Enter his Shut dov I/P-0/P: CCC TUV CB CE KC EAC RCM EMEC UKCA CCC CE KC EAC	°C, 10-95%RH °C (0-50°C) Iz, 26 12min/1cycle, 72 ntly adjust or turn off the output when curcup mode if short circum the output when nor 3750Vac 100MΩ/500VDC/25°C/C China Germany CB member states European Union Korea Russia Australia Europe Britain China European Union Korea Russia	ne output current if the PCB temperature ≥110°C, and recover automatically rent load≥102%, and recover automatically n-load voltage≥28V, and recover automatically 70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, KC61347-2-13 EN61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 SB101347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KN15, KN61547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547			
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PROTECTION SAFETY &	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection Withstand Voltage Isolation Resistance Safety Standards EMC Emission	-40 - 80 ±0.03%/ 10-500h Intellige Shut dov Enter his Shut dov I/P-0/P: I/P-0/P: CCC TUV CB CE KC EAC RCM EMEC UKCA CCC CE KC EAC RCM EMEC RCM EMEC	°C, 10-95%RH °C (0-50°C) Iz, 26 12min/1cycle, 72 ntly adjust or turn off the output when cur ccup mode if short circus on the output when nor 3750Vac 100MΩ/500VDC/25°C/2 China Germany CB member states European Union Korea Russia Australia Europe Britain China European Union Korea Russia Australia Europe Britain China European Union Korea Russia Australia Europe Britain China European Union Korea Russia Australia Europe Russia Australia	ne output current if the PCB temperature ≥110°C, and recover automatically rent load≥102%, and recover automatically n-load voltage≥28V, and recover automatically 70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, KC61347-2-13 EN61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KN15, KN61547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:201			
PROTECTION SAFETY &	Storage Temperature/Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Overvoltage Protection Withstand Voltage Isolation Resistance Safety Standards EMC Emission	-40 - 80 ±0.03%/ 10-500H Intellige Shut dov Enter his Shut dov I/P-0/P: I/P-0/P: CCC TUV CB CE KC EAC RCM EMEC UKCA CCC EAC RCM EMEC EAC	°C, 10-95%RH °C (0-50°C) Iz, 26 12min/1cycle, 72 ntly adjust or turn off the mother off the moth	ne output current if the PCB temperature ≥110°C, and recover automatically rent load≥102%, and recover automatically in-load voltage≥28V, and recover automatically n-load voltage≥28V, and recover automatically 70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61547 KN15, KN61547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN61547 BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:20			



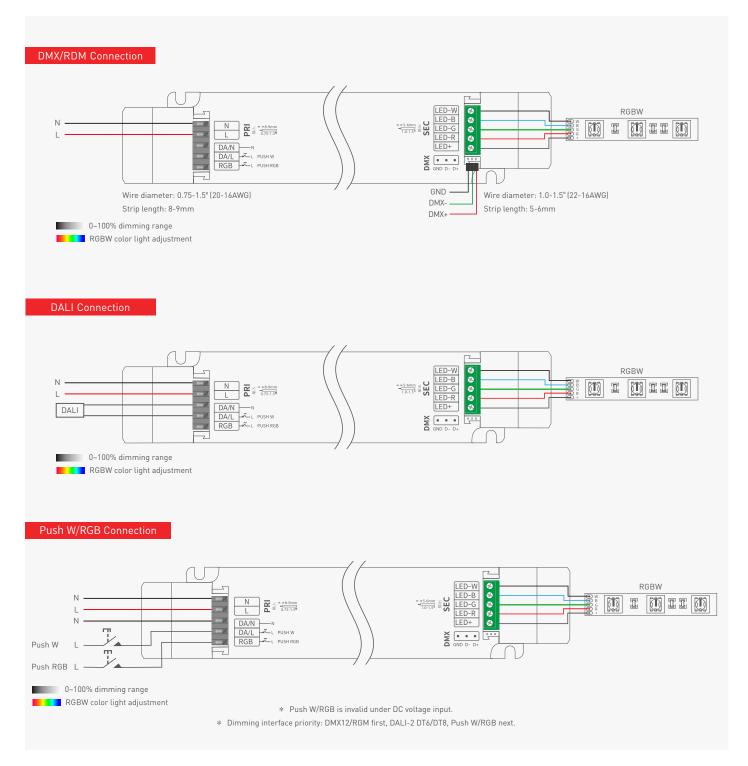
Product Size

Unit: mm





Wiring Diagram



2



LTECH

Push W/RGB



Reset switch

Push W:

By pressing the button, the brightness of W and RGB light can be adjusted. You can adjust either W brightness or RGB brightness only. Toggle between W and RGB brightness adjustment by a double press on the button.

W brightness adjustment: Short press to turn on/off, long press to adjust W brightness (RGB brightness and color remain unchanged at this moment). RGB brightness adjustment: Short press to turn on/off, long press to adjust RGB brightness (W brightness remains unchanged at this moment).

Push RGB

Short press to adjust to the full brightness of RGB color and RGB light, long press to change RGB color.

Protective Housing Application Diagram

Tension plate



1. Pry up the protecting housing in the side plate position with a



2. Connect to electrical wires 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





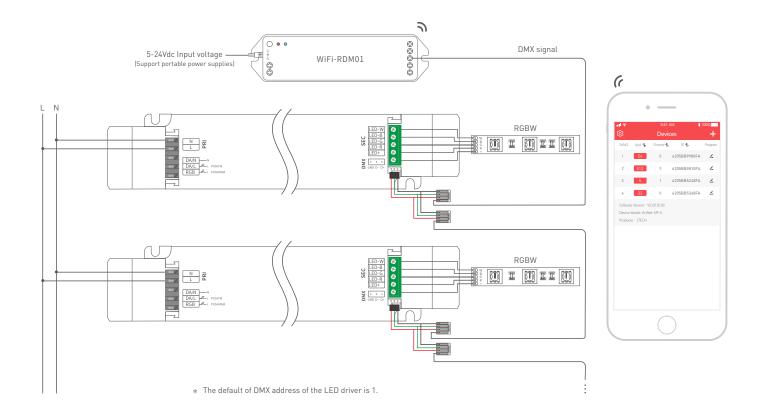


Pull the housing left and right from the bottom to remove it.

DMX Address Settings

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.





Mobile App Interface for the RDM Programmer

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 " 🔞 " in the upper left corner to access the settings which allows you to test, edit DMX addresses, set WiFi for devices and upgrade firmware.



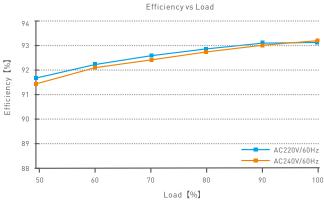


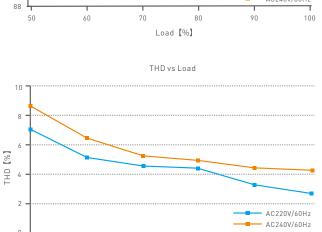


DMX address setting

Relationship Diagrams

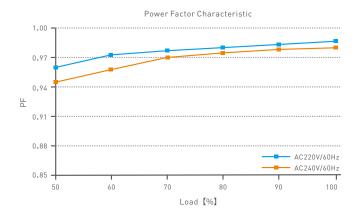
60

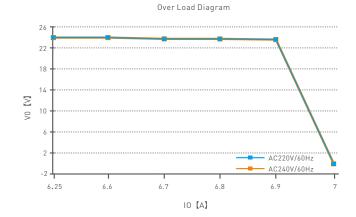




70

Load [%]





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Flicker Test Table

IEEE 1789

Limit value of Modulation in Low Risk Areas						
f ≤ 8Hz	0.2					
8Hz < f ≤ 90Hz	0.025 × f					
90Hz < f ≤ 1250Hz	0.08 × f					
f > 1250Hz	Exemption assessment					
Limit value of Modulation in No Effect Areas						
Waveform frequency of Optical output (f)						
f ≤ 10Hz	0.1					
10Hz < f ≤ 90Hz	0.01 × f					
90Hz < f ≤ 3125Hz	(0.08/2.5) × f					
f > 3125Hz	Exemption assessment (High frequency exemption)					

Brightness

▲ 0.1%

→ 1%

▲ 5%

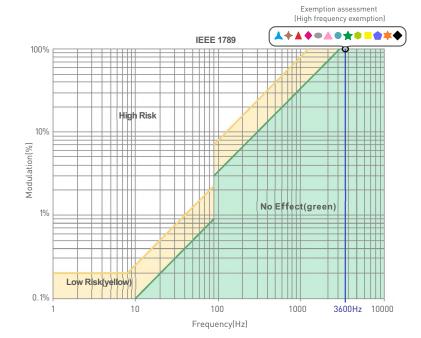
→ 10%

● 20%

▲ 30%

▲ 40%

5%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%



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.

Packaging Specifications

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

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 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 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
Α0	2021.08.05	Original version	Liu Weili
A1	2022.01.24	Modify the wiring application diagram	Liu Weili
A2	2022.02.28	Update output terminal wire diameter and stripping length	Liu Weili

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