

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)	430

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Input Current max (A)	0.75A @ 230V AC
Output Voltage	12V DC
Output Current Max. (A)	12.5
Output Power (W)	150W @ 12V
Power Factor at Full Load	+0.98 @ 230VAC
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	Tunable White
Color Harigo	Tariable Willie

Control

Output Signal	DALI-2, PWM-CV
Control	DALI
Dimming Range	O~100%
Number of Channels	2

Environmental

o	10 00 00
Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20

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ROHS IP20 5 year warranty

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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LED Intelligent CT 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.
- 2 independently SELV constant voltage output channels.
- DALI-2 DT6/DT8, DIM and color temperature adjusting driver.
- Constant power design, adjust different color temperature to keep the same brightness.
- \bullet Dimming range from 0-100%, LED start at 0.1% possible.
- Color temperature adjusting range: 2700-6500K.
- High Efficicient driver: efficiency 93%, PF>0.98, THD<6%.
- \bullet In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W.
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- \bullet Fully-protected plastic housing with design of dismountable end cover.
- \bullet Suitable for internal lights application for I / II / III .
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).













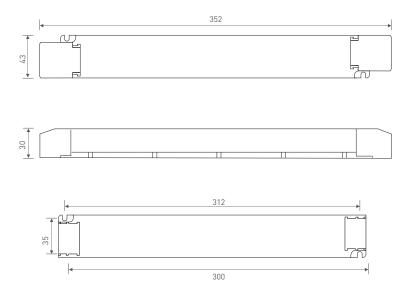


Model		LM-150)-24-G2D2		LM-150-12-G2D2
	Output Voltage	24Vdc			12Vdc
	Output Voltage Range		± 0.5Vdc		12Vdc ± 0.5Vdc
	Output Current	Max. 6.			Max. 12.5A
	Output Power	Max. 15			THAN TELEVI
	Output Power Range	0~150W			
OUTPUT	Strobe Level		equency exemption leve	ıl	
	Dimming Range				
	Overload Power Limitation	≥102%	, down to 0.1%		
			: 1 .000 W : .E	00.1/	Switch ripple 200mV paice 2000mV
	Ripple	Switch ripple<200mV, noise<500mV Switch ripple<200mV, noise<800mV		Switch hppieszooniv, noisesoooniv	
	PWM frequency	3600Hz DALI-2 DT6/DT8			
	Dimming Interface				
	Input Voltage	220-240			
	Frequency	50/60H			
	Input Current	<0.75A	/230Vac		
INPUT	Power Factor	PF>0.98	3/230Vac (at full load)		
	THD	THD<	5%@230Vac (atfulllo	ad)	
	Efficiency (typ.)	93%			92%
	Standby Power Loss	0.5W			
	Inrush Current	Cold st	art 45A/230Vac		
	Anti Surge	L-N: 2k	(V		
	Leakage Current	Max. 0	.5mA		
	Working Temperature		~ 50°C tc: 85°C		
	Working Humidity	20 ~ 95%RH, non-condensing			
ENVIRONMENT	Storage Temperature, Humidity				
LITTINO TINE LITT	Temperature Coefficient	-40 ~ 80°C, 10~95%RH			
	Vibration	±0.03%/°C(0-50°C) 10-500Hz, 26 12min/1cycle, 72 min for X, Y and Z axes respectively			
	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature >110°C, and recover automatically			
PROTECTION	Overload Protection	Shut down the output when current load>102%, and recover automatically			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically			
	Overvoltage Protection	Shut down the output when non-load voltage>28V, and recover automatically Shut down the output when non-load voltage>16V, and recover automatically			
	Withstand Voltage		: 3750Vac		
	Isolation Resistance		: 100MΩ/500VDC/25°C/		
		CCC	China	GB19510.1, GB19510.14	
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493	
		CB	CB member states	IEC61347-1, IEC61347-2-13	47
	Safaty Standards	CE KC	European Union	EN61347-1, EN61347-2-13, EN62384, EN615	41
		EAC	Korea Russia	KC61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13	
SAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13	
&		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384	
EMC		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 613	347-1:2015+A1:2021
		CCC	China	GB/T17743, GB17625.1	
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61	547
	EMC Emission	KC	Korea	KN15, KN61547	
	E	EAC	Russia	IEC62493, IEC61547, EH55015	
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61	
	EMC Immunity	UKCA Britain BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019 EN61000-4-2,3,4,5,6,8,11, EN61547			
	,	EN61000-4-2,3,4,5,6,8,11, EN61547			
	Strobe Test Standard				
	Gross weight(G.W)	430g±10g			
OTHERS	Dimensions	352×43×30mm(L×W×H)			
	Package size	355×44×33mm(L×W×H)			
	Carton Size	Carton Size 370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the			

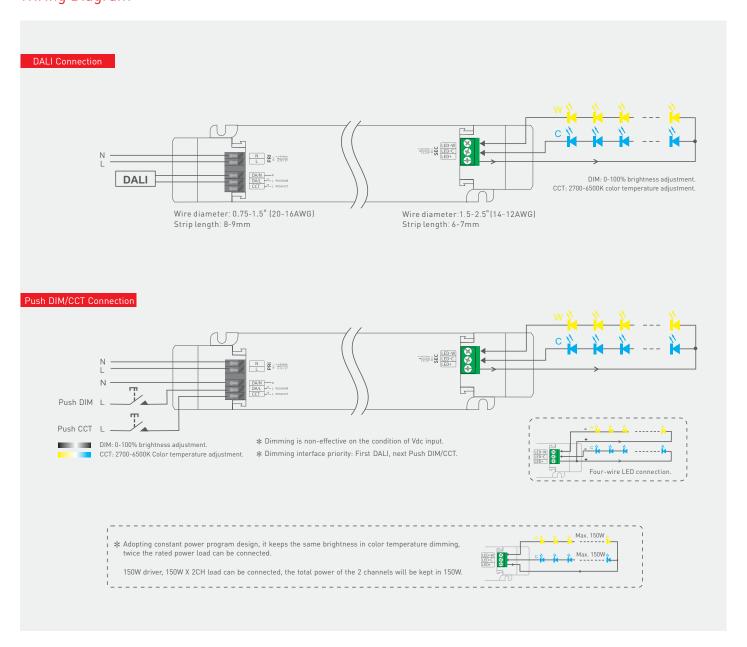


Dimensions

Unit: mm



Wiring Diagram



LTECH

Push DIM



Reset switch

- On/off control: Short press.
- Stepless dimming and color adjustment: long press
- With every other long press, the brightness and color temperature go to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Application Of Protective Cover

Wire pressing board:







Push the wire pressing board to fix the wires.

Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:



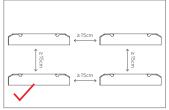




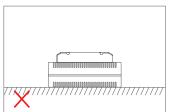
Break off the bottom left and right to remove the protective cover.

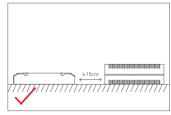
Installation Precautions





Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation and the lifespan of the products.

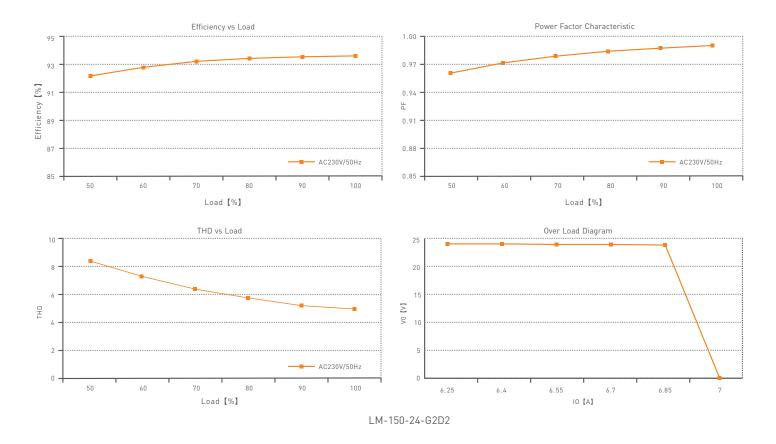




Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.



Relationship Diagrams

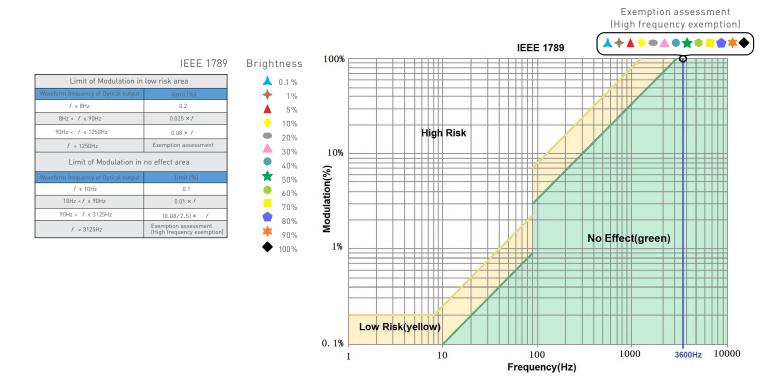


Efficiency vs Load Power Factor Characteristic 1.00 95 93 Efficiency [%] 0.94 ЬЬ 89 0.91 87 0.88 50 100 100 Load [%] Load [%] THD vs Load Over Load Diagram V0 [V] AC230V/50Hz 100 14.5 80 13.5 14 Load [%] 10 [A]

LM-150-12-G2D2



Flicker Test Form



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.
- $\bullet \ \ \, \text{Please check if the working voltage used complies with the parameter requirements of products}.$
- 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.
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods.}\\$

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	2020.03.24	Original version	Huang Yunting
A1	2020.04.21	Increase the input voltage 200-280Vdc; update the relationship chart; increase the life span of 50,000 hours	Huang Yunting
A2	2021.12.10	Update product silk screen; update TUV certification icon	Liu Weili

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