LED Driver DALI DT8 24V 150W - LM-150-24-G2D2

2824400

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	24V DC
Output Current (mA) max/output	6250
Output Current Max. (A)	6.25
Output Power Range (W)	0~150
Power Factor at Full Load	+0.98 @ 230VAC
Efficiency	93%
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
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Lighting	
Color Range	Tunable White
Control	
Control	
	DALI-2, PWM-CV
Output Signal Control	DALI-2, PWM-CV DALI
Output Signal Control	
Output Signal	DALI
Output Signal Control Dimming Range Number of Channels	DALI 0~100%
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Output Signal Control Dimming Range Number of Channels Protection Overload Restart after Protection	DALI 0~100% 2
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Output Signal Control Dimming Range Number of Channels Protection Overload Restart after Protection Protection Class	DALI O-100% 2 Yes Yes
Output Signal Control Dimming Range Number of Channels Protection Overload Restart after Protection Protection Class Environmental	DALI O-100% 2 Yes Yes

Disclaimer

CE

RoHS

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 vour 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.
- 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%.
- 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.
- Fully-protected plastic housing with design of dismountable end cover.
- Suitable for internal lights application for 1 / II / III.
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).

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Flicker Fr	ree	SECUL				SER	
Dimmable: 0.1%-100%	The states	y y	A.M.	V	. J		
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((()		EAE CE		© CE			
DALI Push DIM	Digital Digming		Ver-heat	on represents undergoing certaics	non appreations on	y, and final contribution qua	lification subject to actual product.

Model		LM-150)-24-G2D2		LM-150-12-G2D2			
	Output Voltage	24Vdc			12Vdc			
	Output Voltage Range	24 Vdc \pm 0.5Vdc			12Vdc ± 0.5Vdc			
	Output Current	Max. 6.			Max. 12.5A			
	Output Power	Max. 15						
	Output Power Range	0~150W						
OUTPUT	Strobe Level							
	Dimming Range	High frequency exemption level						
	Overload Power Limitation	0~100%, down to 0.1%						
		>102%						
	Ripple	Switch ripple<200mV, noise<500mV Switch ripple<200mV, noise<800mV						
	PWM frequency							
	Dimming Interface	DALI-2 DT6/DT8						
	Input Voltage	220-240Vac 200-280Vdc						
	Frequency	50/60Hz						
	Input Current	<0.75A/230Vac						
INPUT	Power Factor	PF>0.98/230Vac (at full load)						
	THD	THD<6%@230Vac (at full load)						
	Efficiency (typ.)	93%			92%			
	Standby Power Loss	0.5W						
	Inrush Current	Cold st	art 45A/230Vac					
	Anti Surge	L-N: 2k	<v< td=""><td></td><td></td></v<>					
	Leakage Current	Max. 0	.5mA					
	Working Temperature	ta: -20	ta: -20 ~ 50°C tc: 85°C					
	Working Humidity	20 ~ 95%RH, non-condensing						
ENVIRONMENT	Storage Temperature,Humidity	-40 ~ 80°C, 10-95%RH						
	Temperature Coefficient	±0.03%/°C(0-50°C)						
	Vibration	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						
	Overload Protection	Shut down the output when current load>102%, and recover automatically						
PROTECTION	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	I/P-0/P: 3750Vac						
	Isolation Resistance	I/P=0/P: 3750VaC I/P=0/P: 100MΩ/500VDC/25°C/70%RH						
	isotation resistance	CCC	China	GB19510.1, GB19510.14				
	Safety Standards	TUV	Germany	EN61347-1, EN61347-2-13, EN62493				
		CB	CB member states	IEC61347-1, IEC61347-2-13				
		CE	European Union	EN61347-1, EN61347-2-13, EN62384, EN61547				
		KC	Korea	KC61347-1, KC61347-2-13				
SAFETY		EAC	Russia	IEC61347-1, IEC61347-2-13				
		RCM						
& EMC		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			
	EMC Emission	CCC	China	GB/T17743, GB17625.1				
		CE KC	European Union Korea	EN55015, EN61000-3-2, EN61000-3-3, EN61547				
		EAC	Russia	KN15, KN61547 IEC62493, IEC61547, EH55015				
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547				
		UKCA Britain BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 6100						
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547						
	Strobe Test Standard	IEEE 1789						
	Gross weight(G.W)	430g±10g						
OTUEDO	Dimensions	352×43×30mm[L×W×H]						
OTHERS	Package size	355×44×33mm(L×W×H)						
	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn						
The driver		ent-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						

The driver is 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 overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), so that we can prepare them with special procedures. 1





Dimensions

Unit: mm

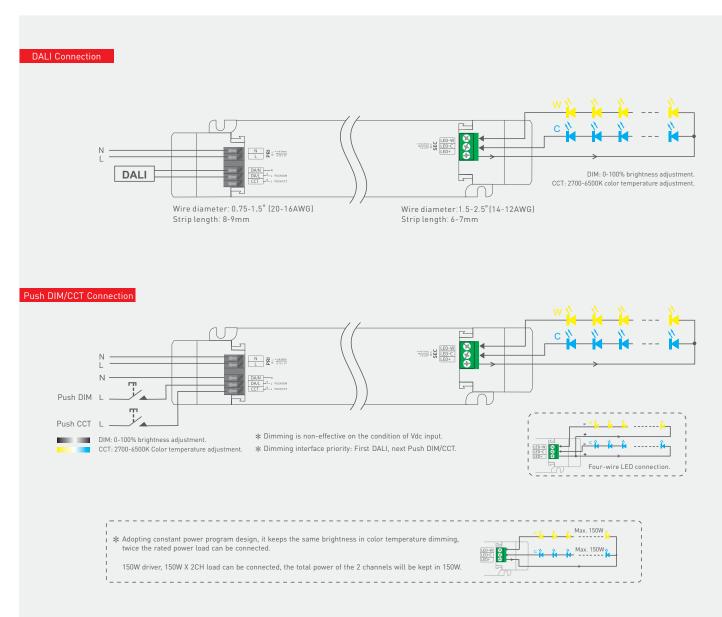




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Wiring Diagram





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.

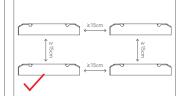
Uninstall protective cover:



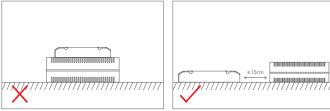
Break off the bottom left and right to remove the protective cover.

Installation Precautions





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

LM-150-24-G2D2 LM-150-12-G2D2

DALI Push DIM/CCT

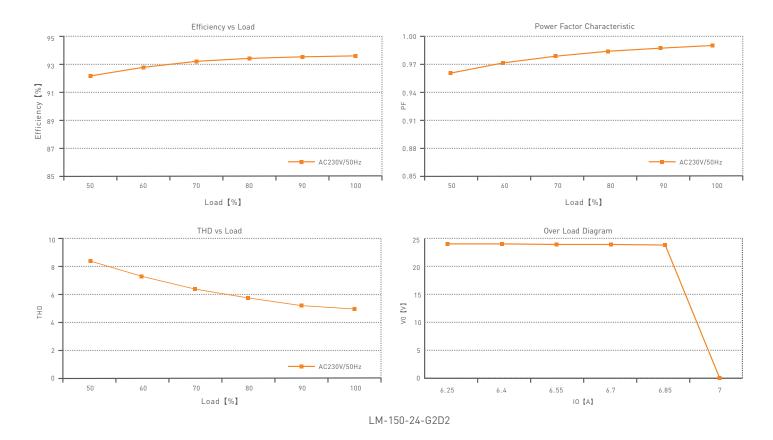


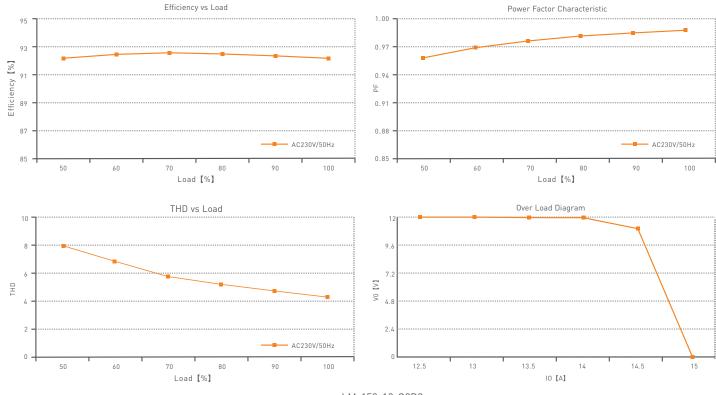


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Relationship Diagrams





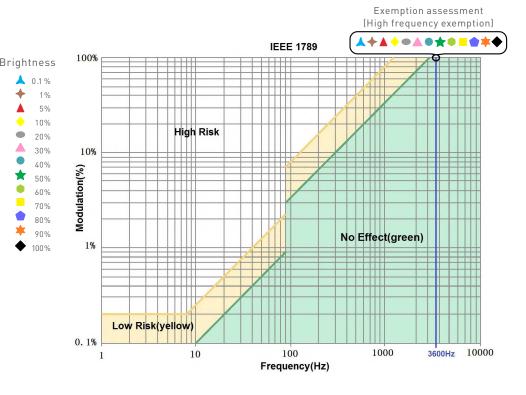
LM-150-12-G2D2





Flicker Test Form

	IEEE 1789					
Limit of Modulation in low risk area						
Waveform frequency of Optical output	limit (%)					
<i>f</i> ≤ 8Hz	0.2					
8Hz < <i>f</i> ≤ 90Hz	0.025 × f					
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f					
f > 1250Hz	Exemption assessment					
Limit of Modulation in	no effect area					
Waveform frequency of Optical output	limit (%)					
<i>f</i> ≤ 10Hz	0.1					
10Hz < f ≤ 90Hz	0.01 × f					
90Hz < <i>f</i> ≤ 3125Hz	(0.08/2.5) × f					
f > 3125Hz	Exemption assessment (High frequency exemption)					



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.



LM-150-24-G2D2 LM-150-12-G2D2



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