

LTECH

LED Intelligent 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
- · With soft-on and fade-in dimming function, enhancing your visual comfort.
- Dimming range from 0-100%, LED start at 0.1% possible.
- 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.
- DALI bus standard: IEC62386-101,102, 207.
- Suitable for internal lights application for I / II / III.
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).







DALI

Dimmable: 0.1%-100%

Flicker Free IEEE 1789



























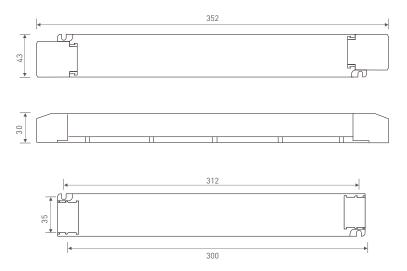
Technical Specs

Model	Model		I-24-G1D2		LM-150-12-G1D2			
OUTPUT	Output Voltage	24Vdc			12Vdc			
	Output Voltage Range	24Vdc ± 0.5Vdc			12Vdc ± 0.5Vdc			
	Output Current	Max. 6.25A			Max. 12.5A			
	Output Power	Max. 12.3A 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		ripple<200mV, noise<5	J0mV	Switch ripple<200mV, noise<800mV			
	PWM frequency	3600Hz						
	Dimming Interface	DALI (IEC62386), Push DIM						
	Input Voltage	220-240Vac 200-280Vdc						
	Frequency	50/60Hz						
	Input Current	<0.75A/230Vac						
	Power Factor	PF>0.98/230Vac (at full load)						
INFUI	THD	THD<6%@230Vac (atfullload)						
	Efficiency (typ.)	93%			92%			
	Standby Power Loss	0.5W						
	Inrush Current	Cold sta	art 45A/230Vac					
	Anti Surge	Cold start 45A/230Vac L-N: 2KV						
	Leakage Current							
		Max. 0.5mA ta: -20 ~ 50°C tc: 85°C						
	Working Temperature							
FAURDANNENT	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, 2G 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	I/P-0/P: 3750Vac						
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH						
	Safety Standards	ccc	China	GB19510.1,GB19510.14				
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493				
		СВ	CB member states	IEC61347-1, IEC61347-2-13				
		CE	European Union	EN61347-1, EN61347-2-13, EN62384, EN615	47			
		KC	Korea	KC61347-1, KC61347-2-13				
CAFET		EAC	Russia	IEC61347-1, IEC61347-2-13				
SAFETY &		RCM	Australia	AS 61347-1, AS 61347-2-13				
EMC		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384 BS EN 61347-2-13:2014+A1:2017, BS EN 613	0/7 1 2015 . M 2021			
		UKCA	Britain China	GB/T17743, GB17625.1	347-1:2015+A1:2021			
	EMC Emission	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61	5.6.7			
		KC	Korea	KN15, KN61547	047			
		EAC	Russia	IEC62493, IEC61547, EH55015				
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61	547			
		UKCA	Britain		47:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547						
	Strobe Test Standard	IEEE 1789						
	Gross weight(G.W)	430g±10g						
OTHERS	Dimensions	352×43×30mm(L×W×H)						
	Package size	355×44×33mm(L×W×H)						
	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn						
The driver		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						

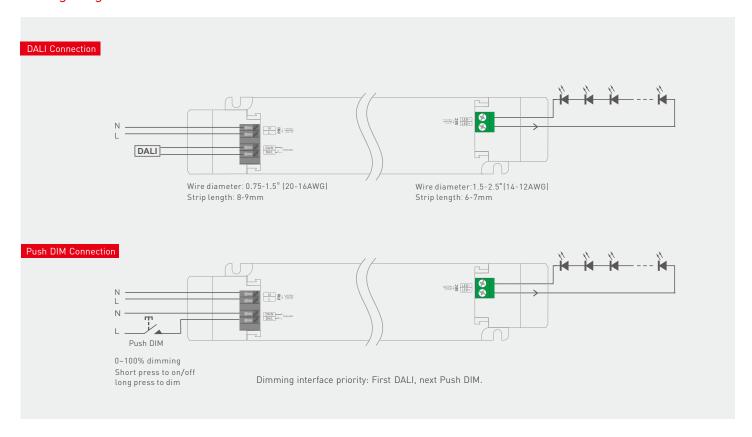


Dimensions

Unit: mm



Wiring Diagram



Push DIM



Reset switch

- On/off control: Short press.
- Stepless dimming: Long press.
- $\bullet\,$ With every other long press, the brightness goes 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:

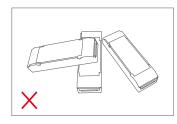


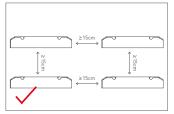




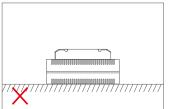
Break off the bottom left and right to remove the protective cover.

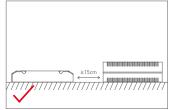
Installation Precautions





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.

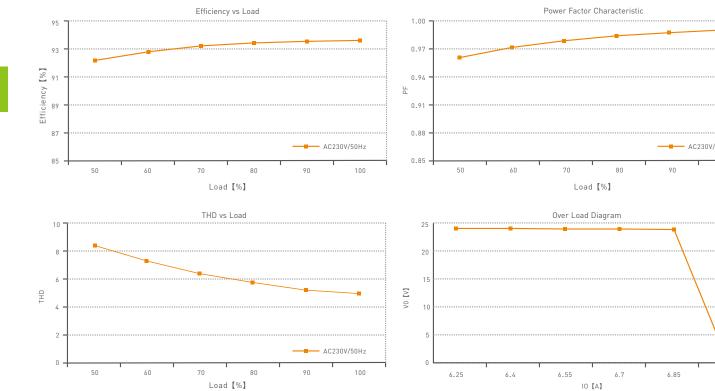




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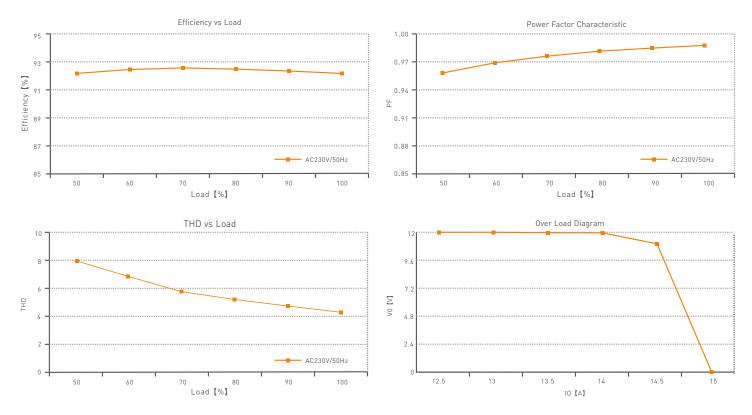
Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams



LM-150-24-G1D2

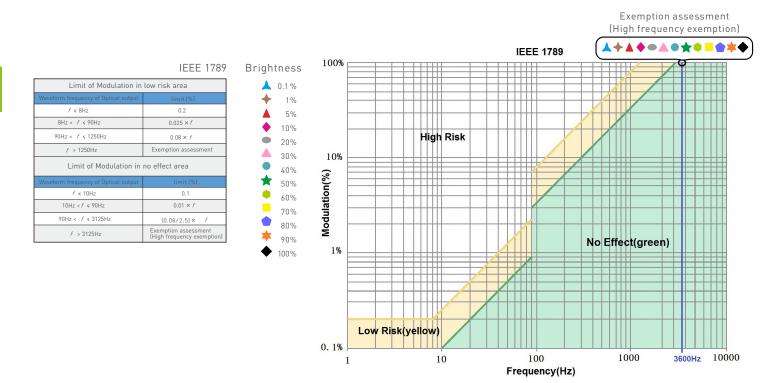




LM-150-12-G1D2

Flicker Test Form

LTECH







Attentions

LTECH

- 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.

- 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	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

www.ltech-led.com