

LED Intelligent Driver (constant voltage) • Dimming interface: DALI, Push DIM DALD2 • With soft-on and fade in function, visual more comfortable. • Dimming range from 0-100%, LED start at 0.1% possible. Flicker-free IEEE 1789 High frequency exemption leve • High frequency exemption level. • DALI dimming curves are available in linear and logarithmic curve. Dimmable: • DALI bus standard IEC62386-101, 102, 207. 0.1%-100% 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. UK CA (\mathbf{m}) CE ROHS SELV \Diamond CB F • Compliant with Safety Extra Low Voltage standard. • Suitable for indoor I / II / III type lamps application. Jul PWM DALI (4) • Up to 50,000-hour life time. V Push DIM • 5 years warranty (Rubycon capacitor).

Specification

Model		LM-75-	12-G1D2		LM-75-24-G1D2	LM-100-24-G1D2		
OUTPUT	Output Voltage	12Vdc			24Vdc			
	Output Voltage Range	12Vdc ±0	.5Vdc		24Vdc ±0.5Vdc			
	Output Current	Max. 6.25A			Max. 3.125A	Max. 4.17A		
	Output Power	Max. 75W				Max. 100W		
	Output Power Range	0~75W 0~100W						
	Strobe Level	High frequency exemption level.						
	Dimming Range	0~100%, dimming depth: Max. 0.1%						
	Overload Power Limitation	≥102%						
	Ripple & Noise	≤200mV ≤300mV						
	PWM Frequency	3600Hz						
INPUT	Dimming Interface	DALI, Push DIM						
	Input Voltage	220-240Vac						
	Frequency	50/60Hz						
	Input Current	Max. 0.4A/230Vac Max. 0.5A/230Vac						
	Power Factor	PF>0.97/230Vac, at full load				PF>0.98/230Vac, at full load		
	THD	≤14% at 230Vac, at full load				≤12% at 230Vac, at full load		
	Efficiency (typ.)	91%			92%	93%		
	Inrush Current(typ.)	Cold star	t 30A at 230Vac		I	Cold start 45A at 230Vac		
	Control surge capability	L-N:2KV						
	Leakage Current	Max. 0.5mA						
	Working Temperature	ta: -20°C	~ 50°C tc: 80°C					
	Working Humidity	20 ~ 95%RH, non-condensing						
ENVIRONMENT	Storage Temp., Humidity	-40°C ~ 80°C, 10-95%RH						
	Temp. Coefficient	±0.03%/°C (0-50°C)						
	Vibration	10-500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers						
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage ≥13V, re-power on to recover after fault condition is removed			Shut down the output when non-lois removed	bad voltage \geq 26V, re-power on to recover after fault condition		
	Over Load Protection	Shut down the output when current load≥102%, auto recovers.						
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.						
	Withstand Voltage	I/P-0/P: 3750Vac						
	Isolation Resistance	I/P-0/P:	00MΩ/500VDC/25°C/70%RH					
SAFETY &	Safety Standards	CCC	China	GB19510.1, GB	19510.14			
EMC		СВ	CB member states	IEC61347-1, IEC61347-2-13				
		RCM	Australia	AS 61347-1, AS 61347-2-13				
		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 61347-1:2015+A1:2021				
		TUV	Germany	EN61347-1, EN61347-2-13, En62493				
		CE	European Union	EN61347-1, EN61347-2-13, En62384				
	EMC Emission	CCC	China	GB/T17743, GB17625.1				
		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 61000-3-3:2013/A1:2019				
		CE European Union En55015, EN61000-3-2, EN61000-3-3, En61547						
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547						
	Strobe Test Standard	IEEE 1789						
	Dimension	293×43×30mm(L×W×H)						
OTHERS	Packing	296×44×33mm(L×W×H)						
	Weight(G.W.)	300g±10g						

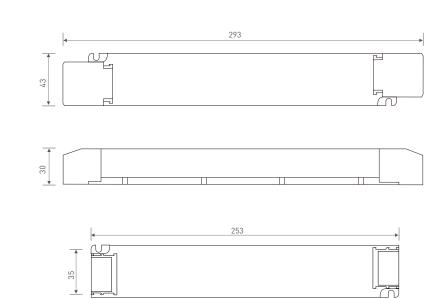
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.





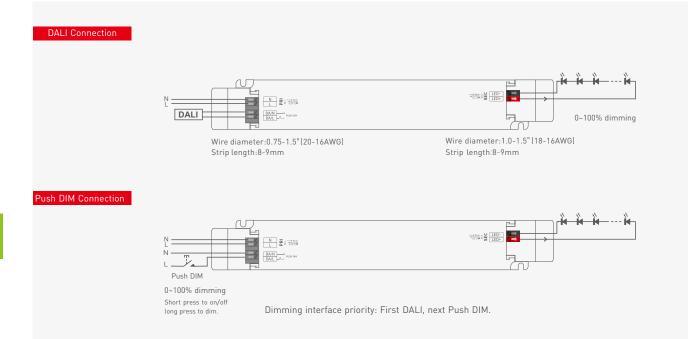
Dimensions

Unit: mm



240

Wiring Diagram



Push DIM



- On/off control: Short press.
- Stepless dimming: Long press.
- 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.

Reset switch





Application of Protective Cover

Wire pressing board:





Push the wire pressing board to fix the wires.

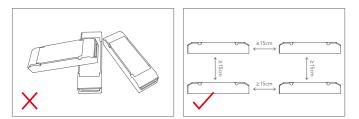


Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board. Uninstall protective cover:

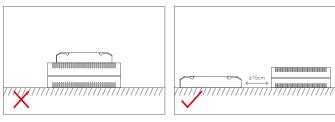


Break off the bottom left and right to remove the protective cover.

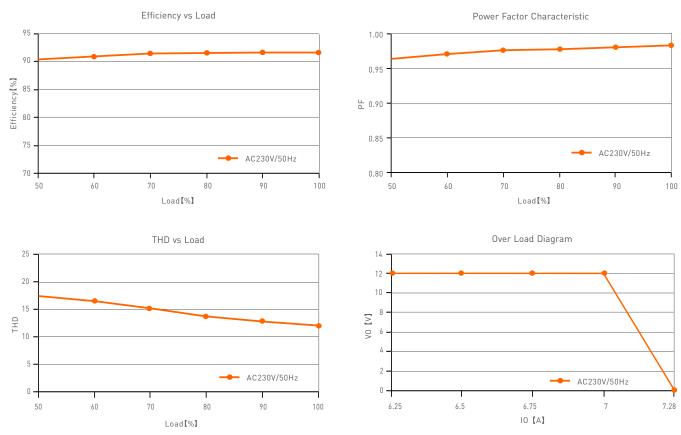
Installation Precautions



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.



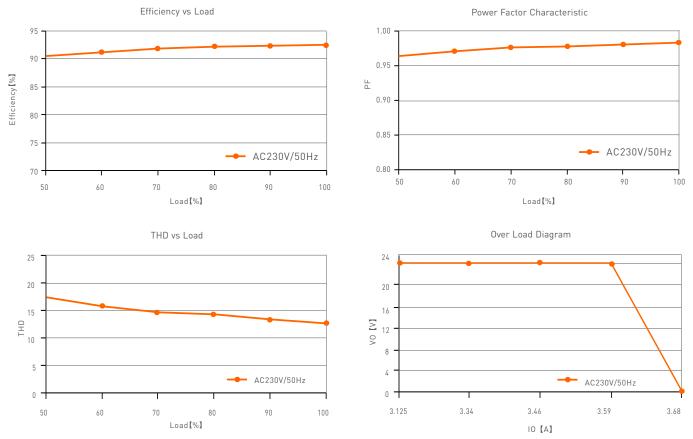
LM-75-12-G1D2

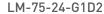
Relationship Diagrams

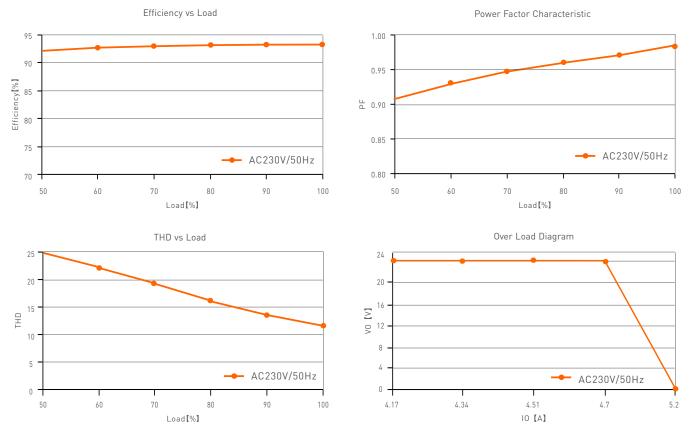
DALI

Push DIM









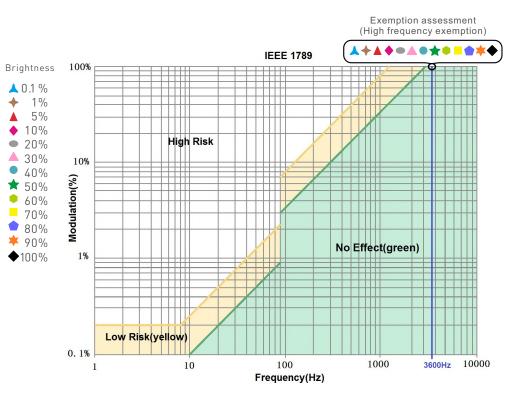
LM-100-24-G1D2





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 (%)				
$f \leq 10 \text{Hz}$	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.





Update Log

Version	Updated Time	Update Content	Updated by
AO	2019.03.12	Original version	Huang Yunting
A1	2019.06.25	Voltage changed from 200-240 to 220-240	Huang Yunting
A2	2021.12.10	Update product silk screen	Liu Weili