

### General

Product Type	Constant Voltage Driver
Length (mm)	293
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	355

## **Electronics**

Input Domain	AC	
Input Voltage	220 ~ 240V AC	
Input Current max (A)	0.4	
Output Voltage	24V DC	
Output Current Max. (A)	3.125	
Output Power Range (W)	0~75	
Power Factor at Full Load	+0.98 @ 230VAC	
Anti Surge	L-N: 2kV	
Leakage current max. (mA)	0.5	
THD (at full load)	6% @ 230V AC	
Input Frequency	50 ~ 60Hz	
Inrush Current	30A @ 230VAC	

# Lighting

Color Range Lunable White	Color Range	Tunable White	
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## Control

Output Signal	PWM-CV
Control	TRIAC
Dimming Range	0~100%

## **Protection**

Protection Class II	1
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# Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	−20 ~ +50 °C
Ingress Protection	IP20

CE 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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# LTECH

## LED CT Intelligent Driver (CV)

- Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM/CCT.
- With soft-on and fade in function, visual more comfortable.
- 2 independently SELV constant voltage output channels.
- Constant power design, adjust brightness and color temperature synchronously.
- Dimming range: 0~100%, LED start at 0.1% possible.
- 0-100% flicker-free, High frequency exemption level.
- High Efficient driver: efficiency 88%,PF>0.98, THD<6%
- Innovative thermal management technology, intelligent power life protection.
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.
- Suitable for internal lights application for I/□/□.
- Up to 50000-hour life time.
- 5 years warranty (Rubycon capacitor).











Flicker-free

**IEEE 1789** 



DIM & CT adjustment



#### Specification

Model		LM-75-24-G2T2	LM-75-12-G2T2		
	Output voltage	24Vdc	12Vdc		
	Output voltage range	24Vdc ± 0.5Vdc	12Vdc ± 0.5Vdc		
	Output current	Max. 3.125A	Max. 6.25A		
	Output power	Max. 75W			
OUTPUT	Output power range	0~75W High frequency exemption level.			
	Strobe level				
	Dimming range	0~100%, dimming depth: Max. 0.1%			
	Overload power limitation	d power limitation ≥102%			
	Ripple & Noise	≤150mV			
PWM frequency 3600Hz					
	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM/CCT.  220-240Vac  50/60Hz			
	Input voltage				
	Frequency				
	Input current	230Vac≤0.4A			
	Power factor	PF>0.98/230Vac , at full load			
INPUT	THD	230Vac@THD<6%, at full load			
	Efficiency (typ.)	88%	87%		
	Inrush current(typ.)	Cold start 30A at 230Vac			
	Control surge capability	L-N: 2kV			
	Leakage current	Max. 0.5mA			
	Working temperature	ta: -20 ~ 50°C tc: 90°C 20 ~ 95%RH, non-condensing -40°C ~ 80°C, 10~95%RH			
	Working humidity				
ENVIRONMENT	Storage temp., humidity				
	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.  Shut down the output when current load≥102%, auto recovers.  Shut down automatically if short circuit occurs, auto recovers.			
	Over load protection				
PROTECTION	Short circuit protection				
	Over voltage protection	Shut down the output when non-load voltage≥26V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥13V, re-power on to recover after fault condition is removed.		
	Withstand voltage	I/P-0/P: 3750Vac			
	Isolation resistance	I/P-0/P: 100M <b>Ω</b> /500VDC/25°C/70%RH			
SAFETY &	Safety standards	IEC/EN61347-1, IEC/EN61347-2-13			
EMC	EMC emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3			
	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.) 350g±10g					

<sup>\*</sup> 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. www.ltech-led.com





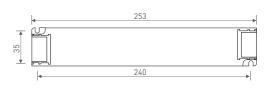




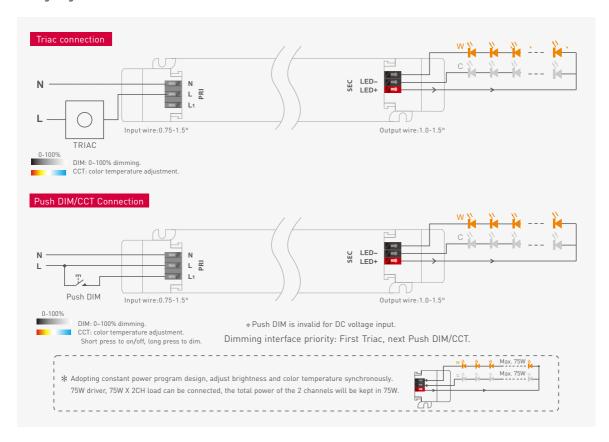
#### **Dimensions**

Unit: mm





#### Wiring Diagram



#### **Push Dimming**



Reset switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: The lights will return to its previous brightness value when short press on PUSH DIM button.

  Power on again after power cut, the output brightness is subjected to the input voltage of drivers.

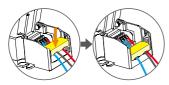
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#### Application of protective cover

Wire pressing board:



Push the wire pressing board to fix the wire.



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

#### Uninstall protective cover:

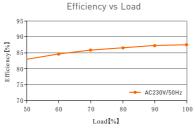


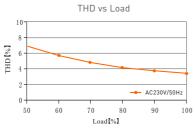




Break off the bottom left and right to remove the protective cover.

## Relationship diagrams





Power Factor Characteristic

1.00

0.95

0.80

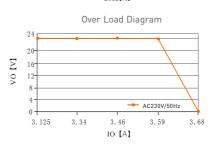
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0.80

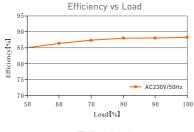
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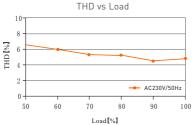
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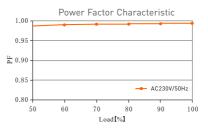
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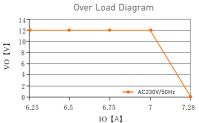


LM-75-24-G2T2









LM-75-12-G2T2

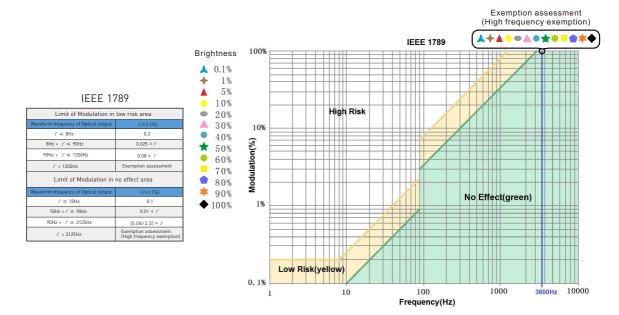
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#### Flicker Test Form



<sup>\*</sup> No further notice if any changes in the manual. Product function depends on the goods. Please feel free to contact your supplier if any question.