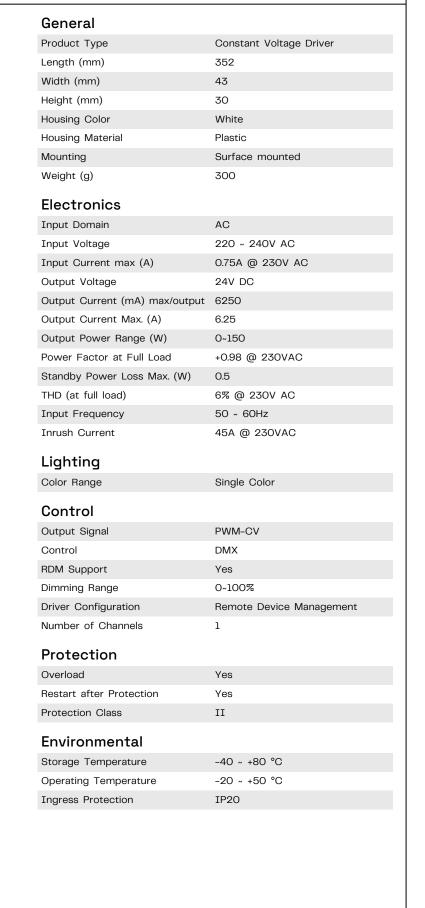
LED Driver DMX 150W 24V - LM-150-24-G1M2

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Disclaimer

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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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(RoHS) IP20 5^{year}

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Paper size: A4

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LTECH LM-150-12-G1M2 **PUSH DIM** LM-150-24-G1M2 LED Intelligent Driver (constant voltage) • Dimming interface: DMX512/RDM、Push DIM Flicker-free IEEE 1789 Dimming range from 0-100%, LED start at 0.1% possible. Achieve the exemption level. With soft-on and fade in function, visual more comfortable. Dimmable: 0.1%-100% Supports RDM remote device management protocol. • RDM • 0-100% flicker-free ,High Frequency Exemption

- High efficient 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 $\, \mathbb{I} \, / \mathbb{I} / \mathbb{I} \,$ •
- 5 years warranty (Rubycon capacitor).





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Over voltage protection

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DMX/RDM

Specification

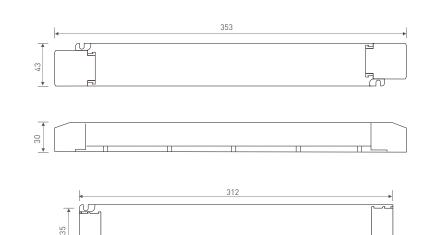
Model		LM-150-12-G1M2	LM-150-24-G1M2			
OUTPUT	Output Voltage	12Vdc	24Vdc			
	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ± 0.5Vdc			
	Output Current	Max. 12.5A	Max. 6.25A			
	Output Power	Max. 150W				
	Output Power Range	0~150W				
	Strobe Level	High frequency exemption level.				
	PWM Frequency	3600Hz				
	Dimming Range	0~100%, dimming depth: Max. 0.1%				
	Overload Power Limitation	≥102%				
	Ripple & Noise	Switch ripple≤200mV, noise≤800mV	Switch ripple≤200mV, noise≤500mV			
	Dimming Interface	DMX/RDM, Push DIM				
	Input Voltage	220-240Vac 200-280Vdc				
	Frequency	50/60Hz				
	Input Current	Max. 0.75A/230Vac				
	Power Factor	PF>0.98/230Vac, at full load				
INPUT	THD	<6% at 230Vac, at full load				
	Efficiency (typ.)	92%	93%			
	Standby Power Loss	<0.5W				
	Inrush Current(typ.)	Cold start 45A at 230Vac				
	Control surge capability	L-N:2KV				
	Leakage Current	Max. 0.5mA				
	Working Temperature	ta: -20°C ~ 50°C tc: 85°C				
ENVIRONMENT	Working Humidity	20 ~ 95%RH, non-condensing				
	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.				
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.				
	Over Voltage Protection	Shut down the output when non-load voltage≥16V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage≥28V, re-power on to recover after fault condition is removed.			
	Over Load Protection	Shut down the output when current load≥102%, auto recovers.				
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers.				
SAFETY & EMC	Withstand Voltage	I/P-0/P: 3750Vac				
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH				
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13				
	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	352×43×30mm(L×W×H)				
OTHERS	Packing	355×44×33mm(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.



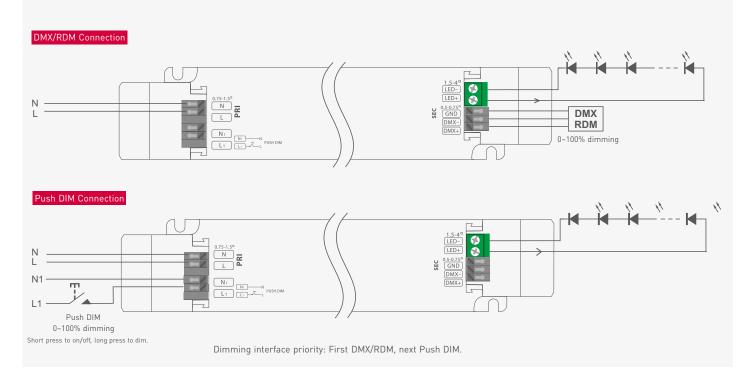
Dimensions

Unit: mm



300

Wiring Diagram



Push Dimming

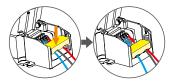


- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Reset switch

Application of Protective Cover

Wire pressing board:



Push the wire pressing board to fix the wire.

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

Uninstall protective cover:



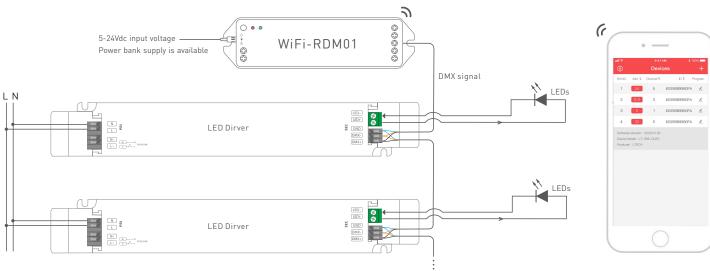
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Break off the bottom left and right to remove the protective cover.



DMX Address Setting

The DMX driver can work with the address editor that complies with standard RDM protocol. It is recommended to use LTECH's RDM editor (model WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:



 \star the defaulted DMX address of the driver is 1.

LTECH RDM editor App interface instruction

Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details.



ut≑ <		9:41 AM \$ 100%		
#1	#2	#3	#4	
#5 OFF	#6	#7	#8	
#9 OFF	#10	#11	#12	
#13	#14	#15 OFF	#16	
#17	#18	#19	#20	
#21		#23	#24	
	#26	#27	#28	
#29		#31 OFF	#32	
#33 OFF				
#37	#38	#39	#40	
#14		•	12	

Test

all≎ ≺		IAM	\$ 100%			
Choose the st	DMX address:Unicast Send					
	< #	18				
#1	#2	#3	#4			
#5	#6	#7	#8			
#9	#10	#11	#12			
#13	#14	#15	#16			
#17	#18	#19	#20			
#21	#22	#23	#24			
#25	#26	#27	#28			
#29	#30	#31	#32			
#33	#34	#35	#36			
)				

DMX address setting

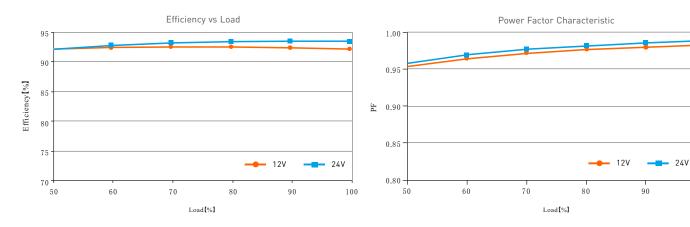
a: Click"Add", edited the address in corresponding box.

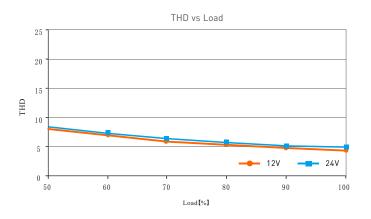
b: Click"ID", get more product details.
c: Click" ≤ ", enter edited interface
d: Click"No.", issue the recognizing command.



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Relationship Diagrams





Flicker Test Form

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

