

General

Product Type	Constant Current Driver
Length (mm)	167
Width (mm)	39
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	175

Electronics

I	nput Domain	AC
I	nput Voltage	220 ~ 240V AC
С	Output Voltage	10 ~ 54V DC
С	Output Current (mA) max/output	200~1200
С	Output Power Range (W)	2~36
Р	ower Supply	Internal
L	ED Outputs	1

Lighting

Color Range	Single Color
Color hange	Single Color
_	<u>~</u>

Control

Output Signal	PWM-CC
Control	DMX
RDM Support	Yes
Number of Channels	1

Protection

Protection Class	II
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Environmental

Ingress Protection	TP2O	

CE IP20 2 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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T-PWM"

Flicker-free

IEEE 1789

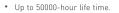
DMX/RDM Push DIM

LED Intelligent Driver (constant current)

• Dimming interface: DMX512/RDM, Push DIM.

LTECH

- T-PWM[™] digital dimming,present a perfect visual experience.
- With RDM remote device management protocol.
- Dimming range: 0~100%, LED start at 0.01% possible.
- With soft-on and fade in function, visual more comfortable.
- DIP switch for 8 optional currents' quick selection.
- 0-100% flicker-free, High frequency exemption level.
- Innovative thermal management technology, intelligent power life protection.
- Multi-current & wide voltage, suitable for different power LED.
- Short circuit / Over-heat / Over load / Non-load protection, recover automatically.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Suitable for internal lights application for I / II / III .



• 5 years warranty (Rubycon capacitor).







TUV Certificate No. B 17 06 01119 001

ENEC Certificate No. U6 17 07 01119 004



RCM Equipment registration No: E2017013627 Ref: ESV170365

EMC Certificate No. BST1702498520001Y-1EC-1 LVD Certificate No. BST1709992470001Y-1SC-2





Dimmable:

0.01-100%

RoHS SELV (E







Specification

Model		DMX-1	5-100-700-E1A	1	DMX-25-150-900-E1A1	DMX-3	36-200-1200-E1A1					
	Output Voltage	10-54Vd	lc									
	Max Output Voltage	58Vdc										
	Non-load Output Voltage	0Vdc	0Vdc									
	Output Current	100-700	lmA		150-900mA	200-120	10mA					
UTPUT	Output Power	1W~15V	V		1.5~25W	2W~36V	V					
	Dimming Range	0~100%	0~100%, LED start at 0.01% possible.									
	Strobe Level	No vide	No video flicker / High frequency exemption level.									
	PWM Dimming Frequency	≼3600H:	Z									
	LF Current Ripple(120Hz)	<2%										
	Current Accuracy	±5%	±5%									
	Ripple & Noise	≤2V (no	dim)									
	Dimming Interface	DMX512	/RDM, Push DIM									
	Input Voltage Range	220-240	Vac									
	Frequency	50/60H	Z									
	Input Current	<0.15A			<0.2A	<0.3A						
	Power Factor	PF>0.90	/230Vac, at full load		PF>0.93/230Vac, at full load	PF>0.95	5/230Vac, at full load					
NPUT	THD	≤20% at	230Vac, at full load			≤15% at	t 230Vac, at full load					
	Efficiency(typ.)	83%			84%	87%						
	Inrush Current(typ.)		art 2.47A at 230Vac 4.3µs measured at 50%	lpeak)	Cold start 3.05A at 230Vac (twidth=34.1µs measured at 50% Ipeak)		irt 6.29A at 230Vac 7.3µs measured at 50% lpeak)					
	Anti Surge	L-N: 1kV										
	Leakage Current	<0.5mA	/230Vac									
	Working Temperature	ta: 50°C	tc: 90°C									
	Working Humidity	20 ~ 959	%RH, non-condensir	ng								
NVIRONMENT	Storage Temp., Humidity	-40°C ~	80°C, 10~95%RH									
	Temp. Coefficient	±0.03%/	±0.03%/°C (0-50°C)									
	Vibration	10~5001	Hz, 2G 12min./1cycle	, period for 72mii	n. each along X, Y, Z axes							
	Over-heat Protection	Intellige	ently adjusting or tur	ning off the outp	ıt current if the PCB temperature≽110°C,	auto recovers						
ROTECTION	Over Load Protection	Shut do	wn the output when	rated power≥102	%, auto recovers							
KOILCIION	Short Circuit Protection	Shut do	wn automatically if s	short circuit occu	rs, auto recovers							
	Non-load Protection	Shut do	wn the output if no l	oad, auto recover	s when load back to normal							
	Withstand Voltage	I/P-0/P	: 3750Vac									
	Isolation Resistance	I/P-0/P	100MΩ/500VDC/25°	°C/70%RH								
		ccc	China	GB19510.1, GI	319510.14							
		TUV	Germany	EN61347-1, E	N61347-2-13, EN62493							
	Safety Standards	CE	European Union	EN61347-1, E	N61347-2-13, EN62384							
SAFETY		СВ	CB member states	IEC61347-1, II	EC61347-2-13							
<u>k</u>		RCM	Australia	AS61347-1, AS	61347-2-13							
MC		ENEC	Europe	EN61347-1, E	N61347-2-13, EN62384							
		ccc	China	GB/T17743, G	317625.1							
	EMC Emission	RCM	Australia	EN550515, EN	61000-3-2, EN61000-3-3, EN61547							
		CE	European Union	EN550515, EN	61000-3-2, EN61000-3-3							
	EMC Immunity	EN6100	0-4-2,3,4,5,6,8,11	EN61547								
	Strobe Test Standard	IEEE 17	89									
	Dimension	167×41>	32mm(L×W×H)									
THERS	Packing	168×43>	35mm(L×W×H)									
	Weight(G.W.)	165g±10)g									

LED Current Selection

DIP switch for 8 optional currents' quick selection(see the table below).

	DIP Switch	111	TTL	171	ATT	TIL	TAT	TTA	TTT	
DMX-15-100-700-E1A1	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	T
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	ON
	Output Power	1W-5.4W	1.8W-9.72W	3W-15W	3.5W-15.05W	4.5W-15.3W	5W-15W	6W-15W	7W-15.4W	
	DIP Switch	7.7.7	117	171	ATT	TIL	TIT	TTA	TTT	

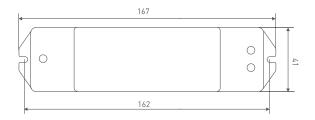
	DID Cit-b	111	1.1.		1 = =	- 1 1				
	Output Power	1.5W-8.1W	2.5W-13.5W	3W-16.2W	3.5W-18.9W	5W-25W	6W-25.2W	7W-25.2W	9W-25.2W	
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V	ON OFF
DMX-25-150-900-E1A1	Output Current	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	7 ≜

	DIP Switch	111	117	五十五	177	TIL	$T\perp\!\!\!\perp T$	TTI	TTT	
DMX-36-200-1200-E1A1	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	T A
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V	ON OFF
	Output Power	2W-10.8W	3.5W-18.9W	5W-27W	6W-32.4W	7W-36.4W	9W-36W	10.5W-36.75W	12W-36W	

- $\ensuremath{\bigstar}$ Please choose the current value when the driver is power off.
- 🗱 E.g. LED 3V/pcs: 10-54V can power 3-18pcs LEDs in series, 10-22V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.
- * Setting DMX address via RDM function

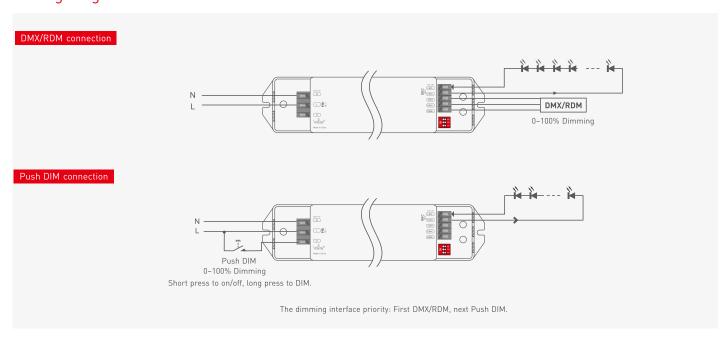
Dimensions

Unit: mm





Wiring Diagram



Push DIM



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: Brightness will be the same as previously adjusted when turning on again.

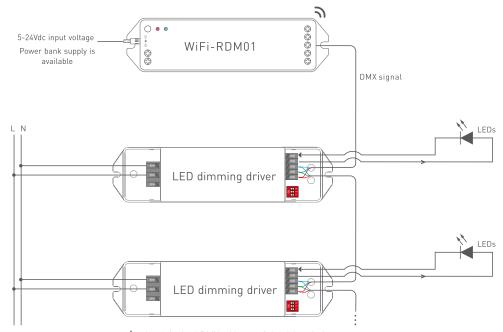
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DMX Address Setting

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:



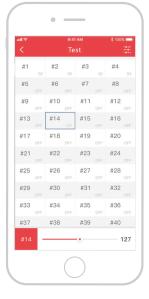


igstar the defaulted DMX address of the driver is 1.

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.



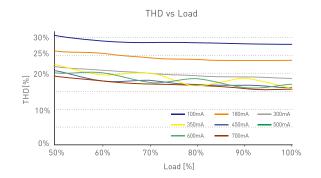


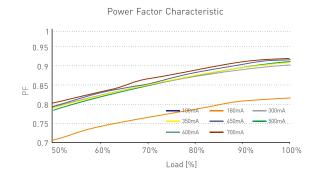


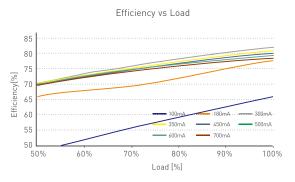
- a: Click"Add", edited the address in corresponding box.
- b: Click"ID", get more product details. c: Click"(2)", enter setting interface.
- d: Click"No.", issue the recognizing command.

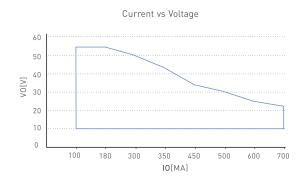
DMX address setting

Relationship Diagrams

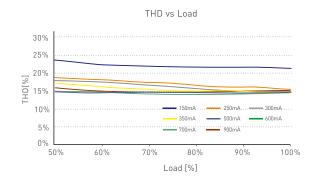






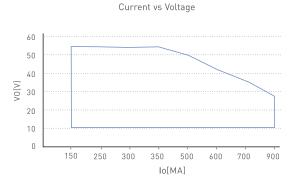


DMX-15-100-700-E1A1



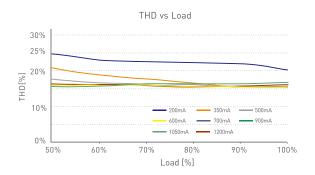


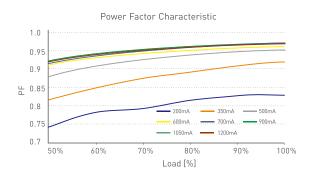


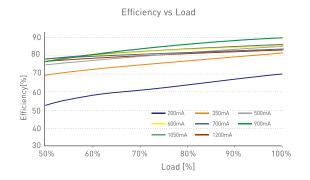


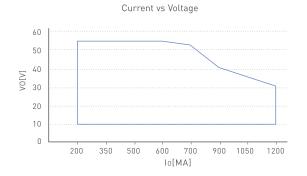
DMX-25-150-900-E1A1







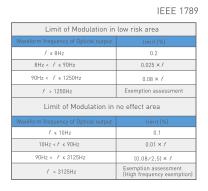


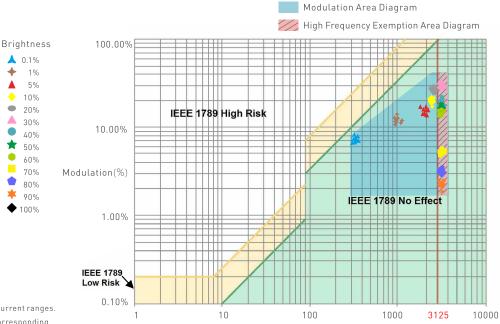


DMX-36-200-1200-E1A1

5

Flicker Test Form





Marks in the right chart were tested results of different current ranges. The output frequeny is 0Hz in 100% brightness and its corresponding modulation s 0%, which could not be shown in the right chart.

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Frequency(Hz)



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.
- $\bullet \quad \mathsf{Good\ heat\ dissipation\ will\ extend\ the\ working\ life\ of\ products.\ Please\ ensure\ good\ ventilation.}$
- $\bullet \quad \text{Please check if the working voltage used complies with the parameter requirements of products}.\\$
- 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
A4	2019.10.24	Add RDM editor connection diagram	Liu Weili
A5	2021.03.02	Update product silk screen, TUV certification icon; add precautions and warranty agreement	Liu Weili