

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

Input Domain	AC
Input Voltage	220 ~ 240V AC
Output Voltage	10 ~ 54V DC
Output Current (mA) max/output	200~1200
Output Power Range (W)	2~36
Power Supply	Internal
LED Outputs	1

Lighting

Color Range	Single Color	
Color Harige	Sirigle Color	

Control

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

Protection

Protection Class	II
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Environmental

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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Secretary Secret



LED Intelligent Driver (constant current)

- Dimming interface: DMX512/RDM, Push DIM.
- 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 .
- Up to 50000-hour life time.
- 5 years warranty (Rubycon capacitor).



DMX/RDM

PUSH DIM







IEEE 1789











T-PWM"

Flicker-free

IEEE 1789

TUV Certificate No. B 17 06 01119 001

RCM Equipment registration No: E2017013627 Ref: ESV170365

ENEC Certificate No. U6 17 07 01119 004

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

Dimmable: 0.01-100%

Specification

Model		DMX-1	5-100-700-E1A	1	DMX-25-150-900-E1A1	DMX-36-200-1200-E1A1					
	Output Voltage	10-54Vd	С								
	Max Output Voltage	58Vdc									
	Non-load Output Voltage	0Vdc									
	Output Current	100-700	100-700mA 150-900mA 200-1200mA								
DUTPUT	Output Power	1W~15V	1W~15W 1.5~25W 2W~36W								
	Dimming Range	0~100%	, LED start at 0.01%	% possible.							
	Strobe Level	No vide	No video flicker / High frequency exemption level.								
	PWM Dimming Frequency	≼3600H:	≤3600Hz								
	LF Current Ripple(120Hz)	<2%	<2%								
	Current Accuracy	±5%									
	Ripple & Noise	≤2V (no	<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					
NEUT	Power Factor	PF>0.90	/230Vac, at full load		PF>0.93/230Vac, at full load	PF>0.95/230Vac, at full load					
NPUT	THD	≤20% at	230Vac, at full load			≤15% at 230Vac, at full load					
	Efficiency(typ.)	83%			84%	87%					
	Inrush Current(typ.)		rt 2.47A at 230Vac 4.3µs measured at 50%	lpeak)	Cold start 3.05A at 230Vac (twidth=34.1µs measured at 50% Ipeak)	Cold start 6.29A at 230Vac (twidth=57.3µs measured at 50% Ipeak)					
	Anti Surge	L-N: 1k	V								
	Leakage Current	<0.5mA	<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%/	°C (0-50°C)								
	Vibration	10~5001	Hz, 2G 12min./1cycle	e, period for 72mi	n. each along X, Y, Z axes						
	Over-heat Protection	Intellige	ntly adjusting or tur	ning off the outp	ut current if the PCB temperature≽110°C, a	uto recovers					
ROTECTION	Over Load Protection	Shut do	wn the output when	rated power≥102	%, auto recovers						
	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	load, auto recover	rs 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, G	B19510.14						
		TUV	Germany	EN61347-1, E	N61347-2-13, EN62493						
	Safety Standards	CE	European Union	EN61347-1, E	N61347-2-13, EN62384						
AFETY	,	СВ	CB member states	IEC61347-1, I	EC61347-2-13						
k EMC		RCM	Australia	AS61347-1, AS	61347-2-13						
:MC		ENEC	Europe	EN61347-1, E	N61347-2-13, EN62384						
		ccc	China	GB/T17743, G	B17625.1						
	EMC Emission	RCM	RCM Australia EN550515, EN61000-3-2, EN61000-3-3, EN61547								
		CE	European Union	EN550515, EN	161000-3-2, 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	lg								

10-50V

5W-25W

6W-25.2W

10-36V

7W-25.2W

10-28V

9W-25.2W

ON OFF

LED Current Selection

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

	DIP Switch	TIT	117	171	ATT	TII	TAT	TTA	TTT	
DMX-15-100-700-E1A1	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	T A
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	ON OFF
	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	111	117	工工工	ATT	TIL	TAT	TTA	TTT	
DMX-25-150-900-E1A1	Output Current	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	₹ 4

	DIP Switch	111	117	1 7 1	177	711	717	771	777	
DMX-36-200-1200-E1A1	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	₹ ±
BMX-30-200-1200-E1X1	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 6W	7W-36 //W	9W-36W	10 5W-36 75W	12W-36W	

3W-16.2W

3.5W-18.9W

- $\displaystyle \pmb{\star}$ 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.

10-54V

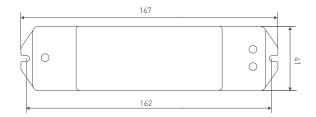
2.5W-13.5W

* Setting DMX address via RDM function

DMX-25-150-900-E1A1

Dimensions

Unit: mm



Output Voltage

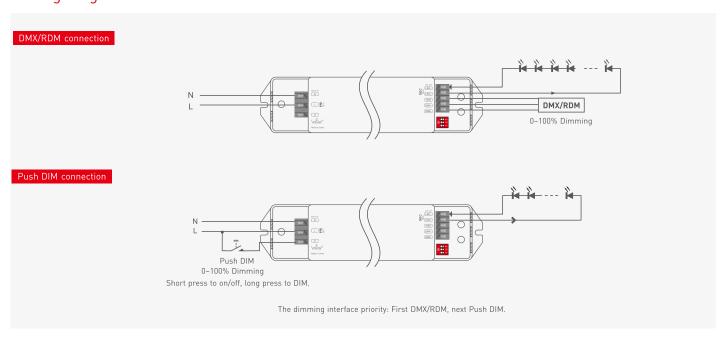
Output Power

10-54V

1.5W-8.1W



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.

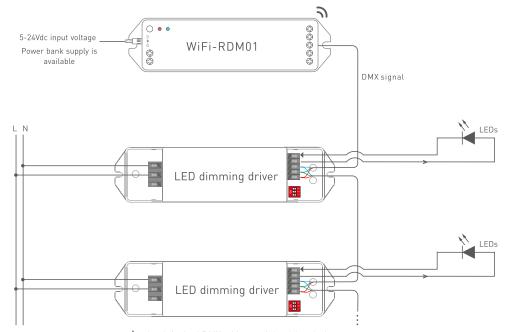
2



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.



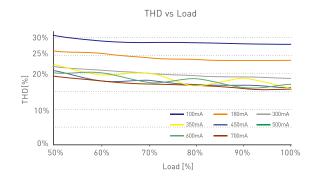
#2 #4 #1 #3 #7 #9 #10 #11 #12 #13 #14 #15 #16 #17 #19 #21 #22 #24 #23 #25 #27 #28 #29 #31 #32 #33 #34 #35 #36 127

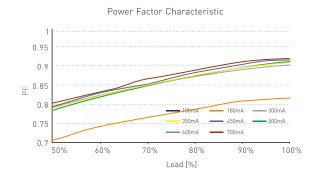


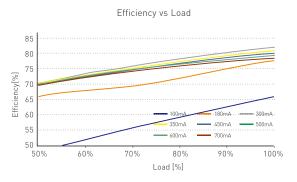
- a: Click"Add", edited the address in corresponding box.
- b: Click"ID", get more product details. c: Click"(2)", enter setting interface.
- d: Click"No.", issue the recognizing command.

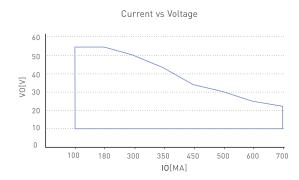
DMX address setting

Relationship Diagrams

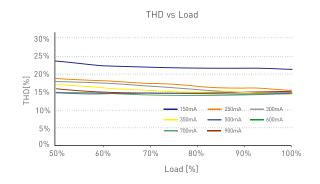


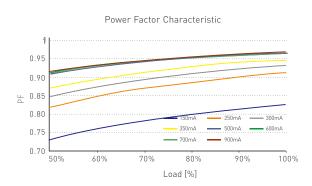


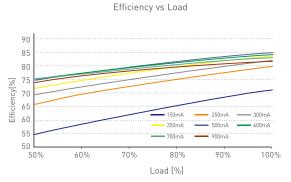


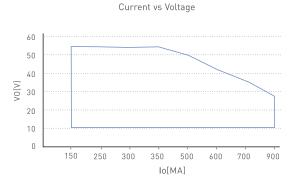


DMX-15-100-700-E1A1



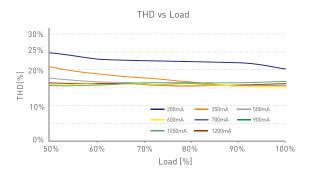


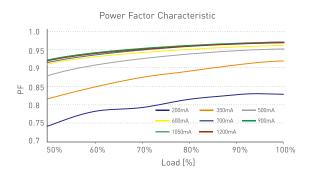


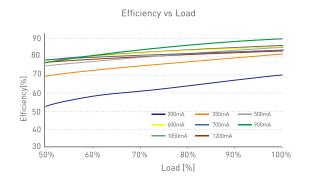


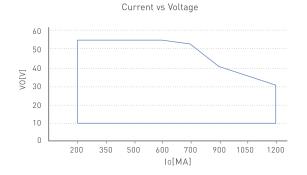
DMX-25-150-900-E1A1









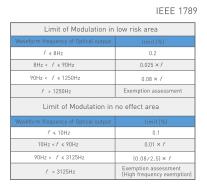


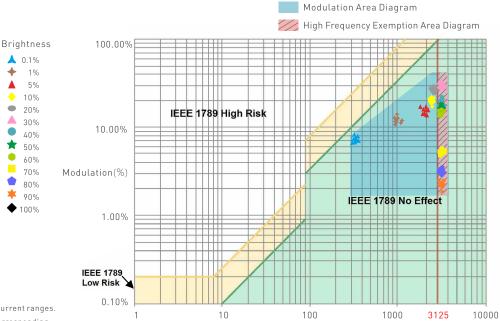
DMX-36-200-1200-E1A1

5

Flicker Test Form

LTECH





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.

www.ltech-led.com

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