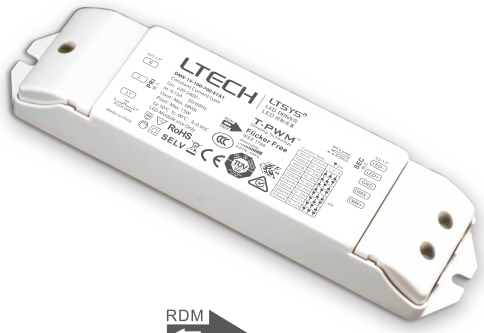
DMX/RDM Push DIM

LED Intelligent Driver (constant current)



- Dimming interface: DMX512/RDM, Push DIM.
- T-PWM™ digital dimming.
- 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
- 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).

T-PWM™
Super depth dimming technology

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

RDM
DMX

Dimmable:
0.01-100%

5 years warranty

IS15885 (Part2/Sec13) R-41072265

RoHS SELV CE Class 2

DMX/RDM PUSH DIM | T-PWM Super depth dimming technology | Flicker-free IEEE 1789 | Over-heat Protection | Short Circuit Protection | Over Load Protection | Multiple Current

Specification

Model		DMX-15-100-700-E1A1	DMX-25-150-900-E1A1	DMX-36-200-1200-E1A1
OUTPUT	Output Voltage	10-54Vdc		
	Max Output Voltage	58Vdc		
	Non-load Output Voltage	0Vdc		
	Output Current	100-700mA	150-900mA	200-1200mA
	Output Power	1W~15W	1.5~25W	2W~36W
	Dimming Range	0~100%, LED start at 0.01% possible.		
	Strobe Level	No video flicker / High frequency exemption assessment level.		
	PWM Dimming Frequency	≤3600Hz		
	Current Accuracy	±5%		
	Ripple & Noise	≤2V (no dim)		
INPUT	Dimming Interface	DMX512/RDM, Push DIM		
	Input Voltage Range	220-240Vac ±10%		
	Frequency	50/60Hz		
	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>0.95/230Vac, at full load
	THD	⩽20% at 230Vac, at full load		⩽15% at 230Vac, at full load
	Efficiency(typ.)	83%	84%	87%
	Inrush Current(typ.)	Cold start 2.47A at 230Vac (twidth=24.3μs measured at 50% Ipeak)	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: 1kV		
	Leakage Current	<0.5mA/230Vac		
ENVIRONMENT	Working Temperature	ta: 50°C tc: 90°C		
	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 Load Protection	Shut down the output when rated power⩾102%, auto recovers.		
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.		
	Non-load Protection	Shut down the output if no load, auto recovers when load back to normal.		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac		
	Isolation Resistance	I/P-O/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		
OTHERS	Dimension	167×41×32mm(L×W×H)		
	Packing	168×43×35mm(L×W×H)		
	Weight(G.W.)	165g±10g		

LED Current Selection

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

	DIP Switch								
DMX-15-100-700-E1A1	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V
	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								
DMX-25-150-900-E1A1	Output Current	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V
	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

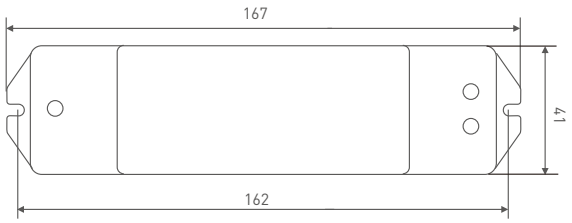
	DIP Switch								
DMX-36-200-1200-E1A1	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V
	Output Power	2W-10.8W	3.5W-18.9W	5W-27W	6W-32.4W	7W-36.4W	9W-36W	10.5W-36.75W	12W-36W

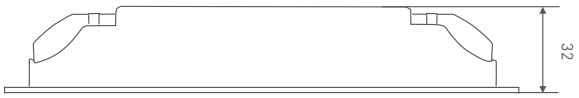
ON OFF

- 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

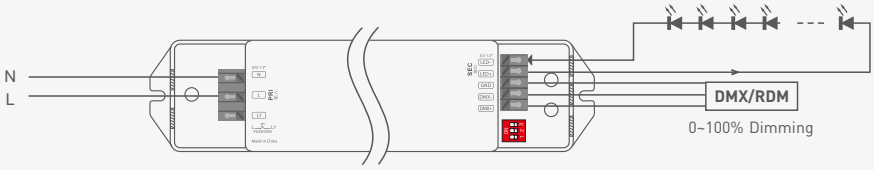
Unit: mm



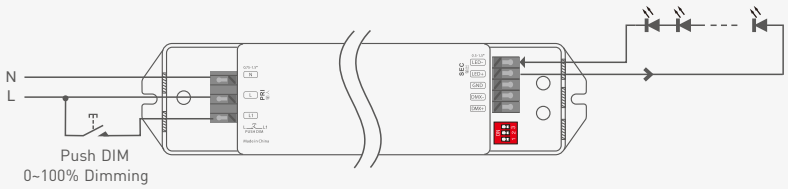


Wiring Diagram

DMX/RDM connection



Push DIM connection



Short press to on/off, long press to DIM.

The dimming interface priority: First DMX/RDM, next Push DIM.

Push Dimming

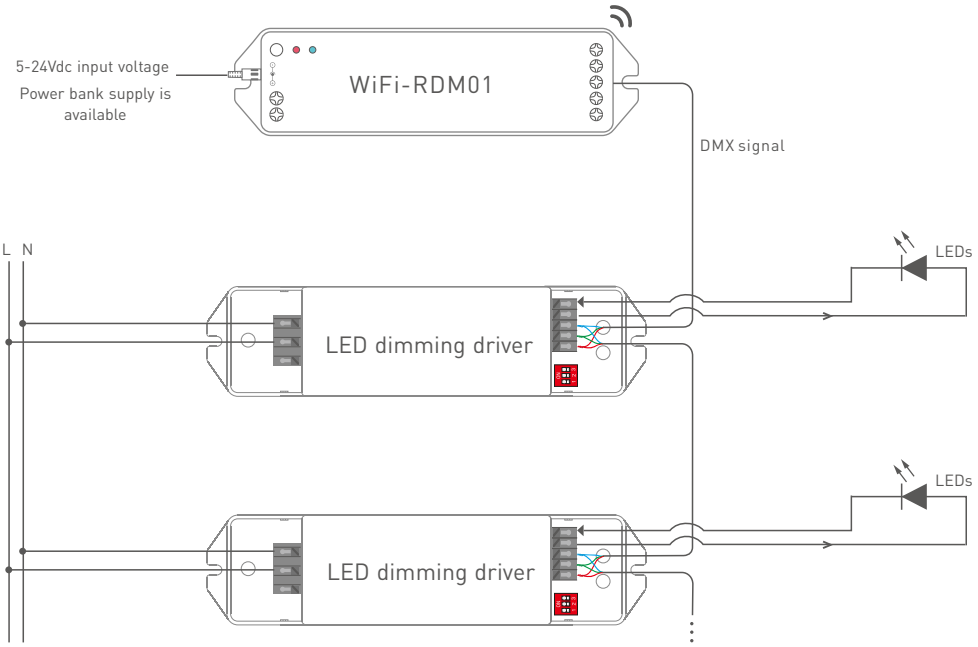


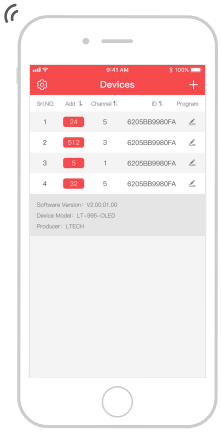
Reset Switch

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

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:

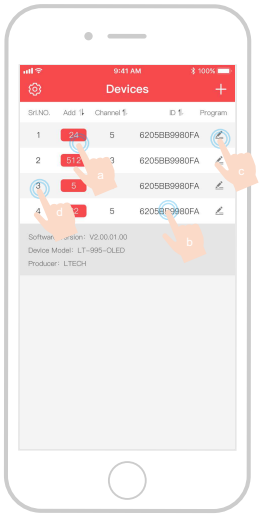




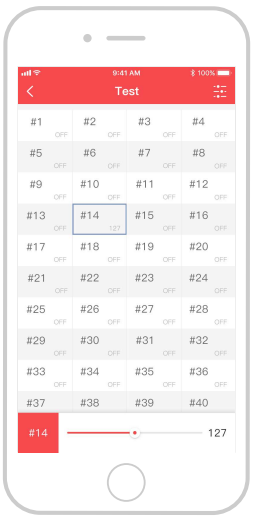
✳ the defaulted DMX address of the driver is 1.

LTECH RDM editor App interface instruction

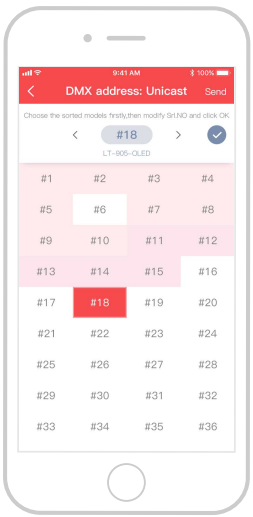
Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details.



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



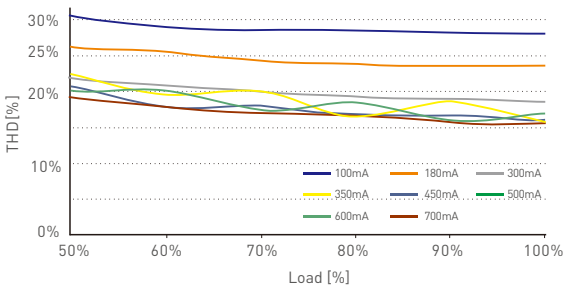
Test



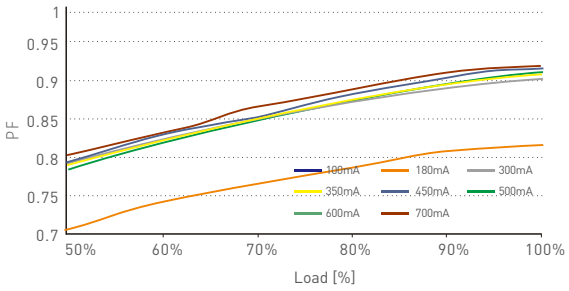
DMX address setting

Relationship Diagrams

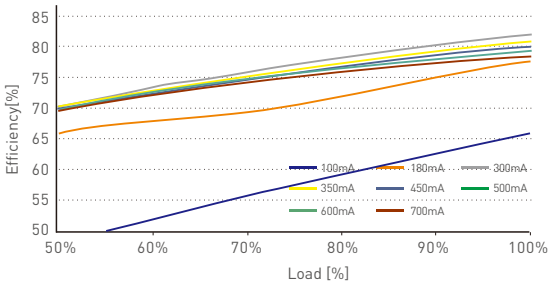
THD vs Load



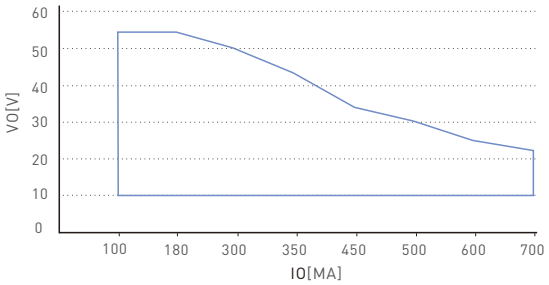
Power Factor Characteristic



Efficiency vs Load

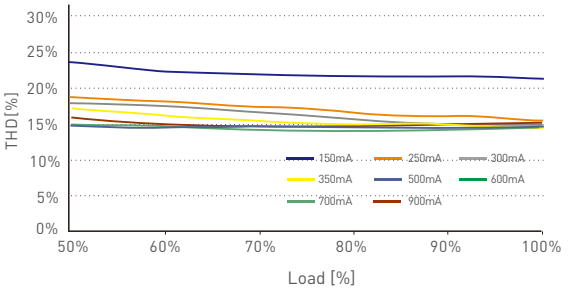


Current vs Voltage

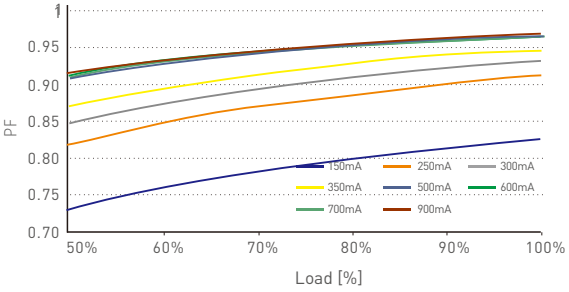


DMX-15-100-700-E1A1

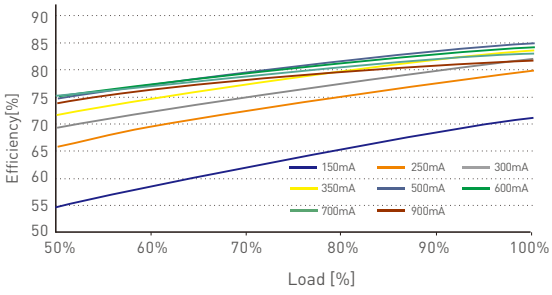
THD vs Load



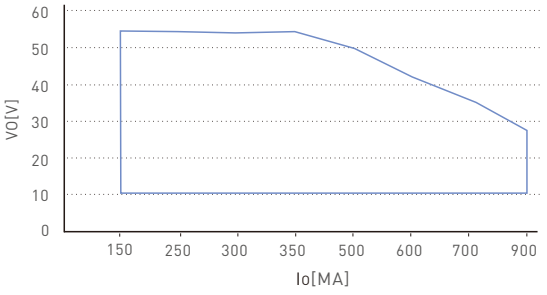
Power Factor Characteristic



Efficiency vs Load

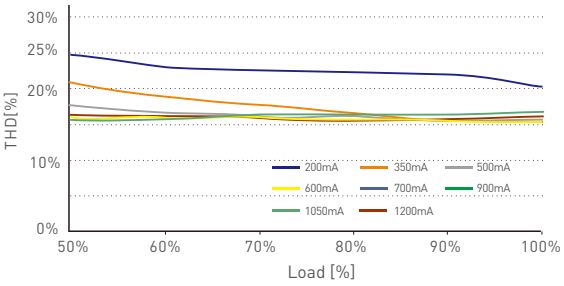


Current vs Voltage

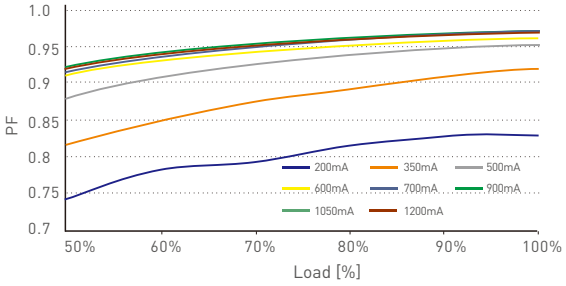


DMX-25-150-900-E1A1

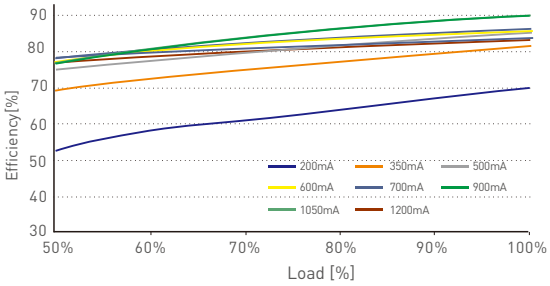
THD vs Load



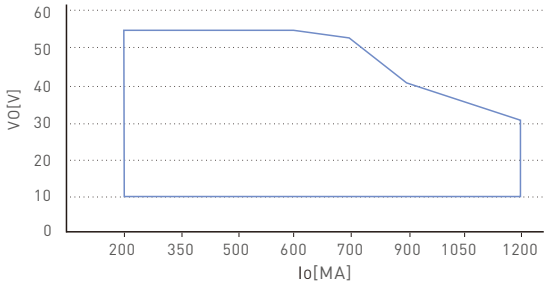
Power Factor Characteristic



Efficiency vs Load



Current vs Voltage



DMX-36-200-1200-E1A1

* 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.