

SE-20-250-1000-W2M2

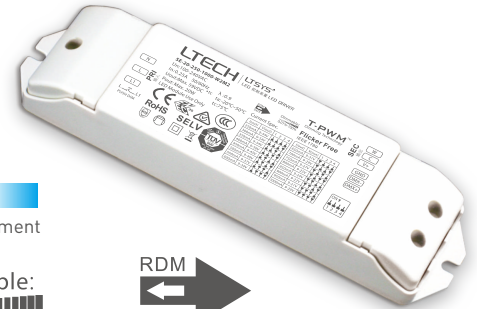
LED Intelligent CT Driver (constant current)

- 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 16 optional currents' quick selection.
- 0-100% flicker-free, High Frequency Exemption
- Dimming interface with photoelectric isolation, in line with the latest safety standards, more safe and reliable.
- In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W
- Innovative thermal management technology, intelligent power life protection.
- Over temp. / Over voltage / Over load / Short circuit 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).

LTECH

DMX/RDM
PUSH DIM/CCT

2.25~20W 250~1000mA 9~54Vdc



T-PWM™

Super depth dimming technology

CT adjustment

Flicker-free

IEEE 1789

Dimmable:
0.01-100%



Main characteristics

Dimming interface:	DMX512/RDM, Push DIM	Output voltage:	9-54Vdc
Input voltage:	100-240Vac (120-300Vdc)	Max output voltage:	59Vdc
Frequency:	50/60Hz	Strobe level:	No video flicker / High frequency exemption assessment level.
Input current:	115Vac≤0.25A, 230Vac≤0.13A	Dimming range:	0~100%, 0.01% dimming depth.
Output current:	250-1000mA	LF current ripple(<120Hz):	<1%
Output power:	Max. 20W	Current accuracy:	±5%
Power factor:	PF>0.95/115Vac, PF>0.90/230Vac, at full load	Ripple & Noise:	≤2V
THD:	230Vac@THD≤9%, at full load	PWM dimming frequency:	≤3600Hz
Efficiency:	83%	Working temperature:	ta: -20 ~ 50°C tc: 75°C
Standby power Loss:	<0.5W	Working humidity:	20 ~ 95%RH, non-condensing
Inrush current(typ.):	Cold start 10A at 230Vac (twidh=40μs measured at 50% Ipeak)	Storage temp., humidity:	-40 ~ 80°C, 10-95%RH
Anti surge:	L-N: 2kV	Temp. coefficient:	±0.03%/°C(0-50°C)
Leakage current:	<0.24mA/230Vac	Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.

LED current selection

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

Choose current via DIP switch



SE-20-250-1000-W2M2	DIP switch	⬇⬇⬇⬇	⬇⬇⬇⬆	⬇⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	ON OFF
	Output current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	
Output voltage	9-54V	9-54V	9-54V	9-50V	9-45V	9-40V	9-37V	9-34V		
Output power	2.25-13.5W	2.7-16.2W	3.15-18.9W	3.6-20W	4.05-20.25W	4.5-20W	4.95-20.35W	5.4-20.4W		
DIP switch	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆		
Output current	650mA	700mA	750mA	800mA	850mA	900mA	950mA	1000mA		
Output voltage	9-31V	9-29V	9-27V	9-25V	9-24V	9-22V	9-21V	9-20V		
Output power	5.85-20.15W	6.3-20.3W	6.75-20.25W	7.2-20W	7.65-20.4W	8.1-19.8W	8.55-19.95W	9-20W		

- * Please choose the current value when the driver is power off.
- * E.g. LED 3V/pcs: 9-20V can power 3-6pcs LEDs in series, 9-54V can power 3-18pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.
- * Setting DMX address via RDM function

Protection

Over temp. 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 current load ≥102%, auto recovers.
Short circuit protection:	Shut down automatically if short circuit occurs, auto recovers.
Over voltage protection:	Output current declined when over non-load voltage, auto recovers.
Non-load Protection	Shut down the output if no load, auto recovers.

Safety & EMC

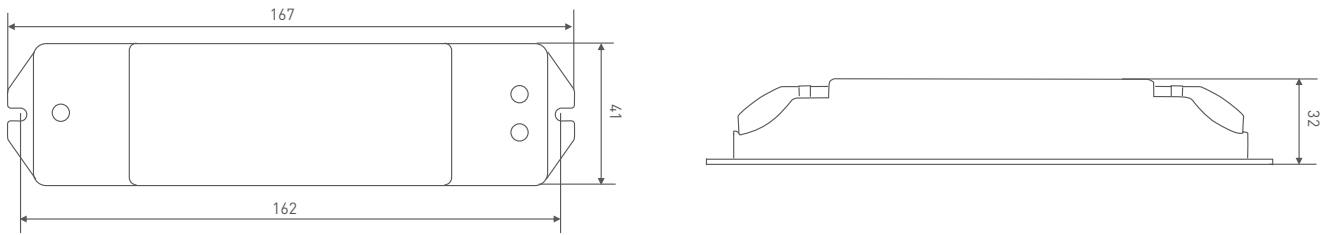
Withstand voltage:	I/P-O/P: 3750Vac
Isolation resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC immunity:	EN61000-4-2,3,4,5,6,8,11, EN61547
Strobe test standard:	IEEE 1789

Others

Dimension:	167×41×32mm(L×W×H)
Packing:	168×43×35mm(L×W×H)
Weight(G.W.):	160g±10g

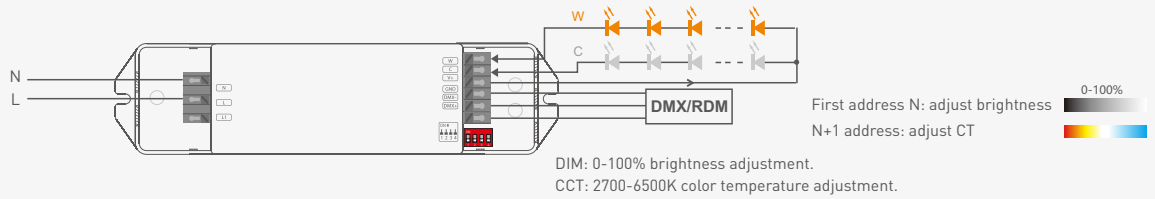
Dimensions

Unit: mm

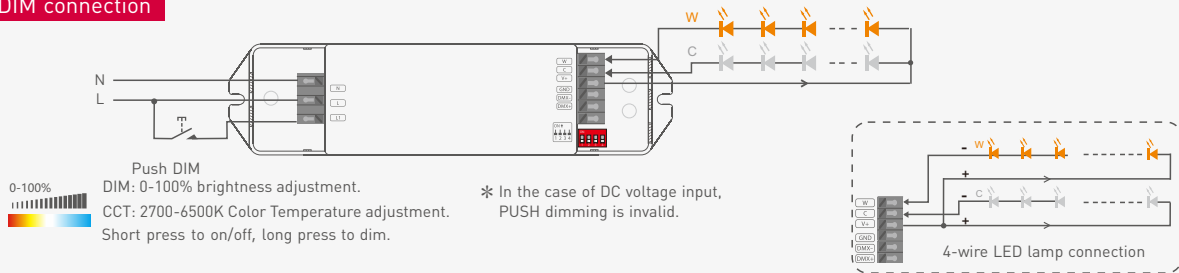


Wiring diagram

DMX/RDM connection

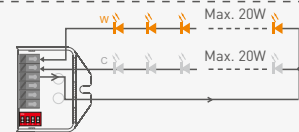


Push DIM connection

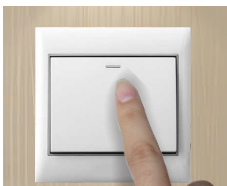


* Dimming interface priority: First DMX/RDM, next Push DIM.

* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.
20W driver, 20W × 2CH load can be connected, the total power of the 2 channels will be kept in 20W.



Push DIM/CCT

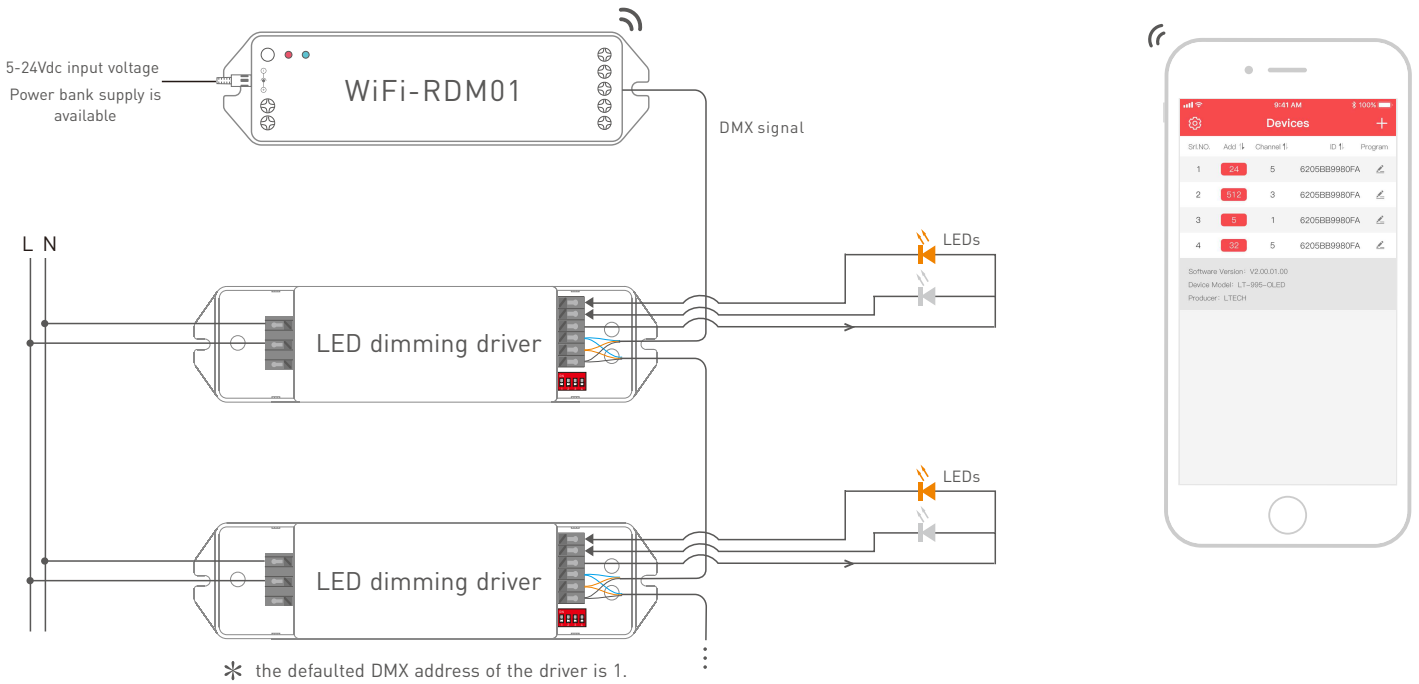


Reset switch

- On/off control: Short press.
- Stepless DIM/CT: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and 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:



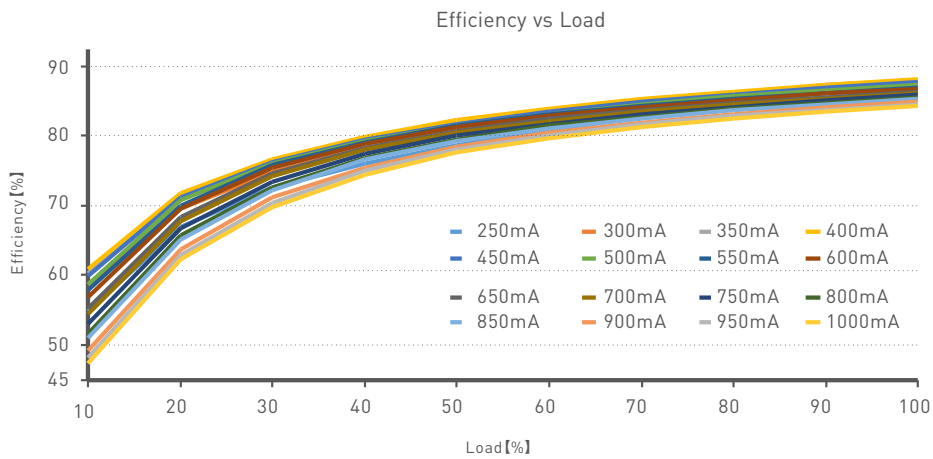
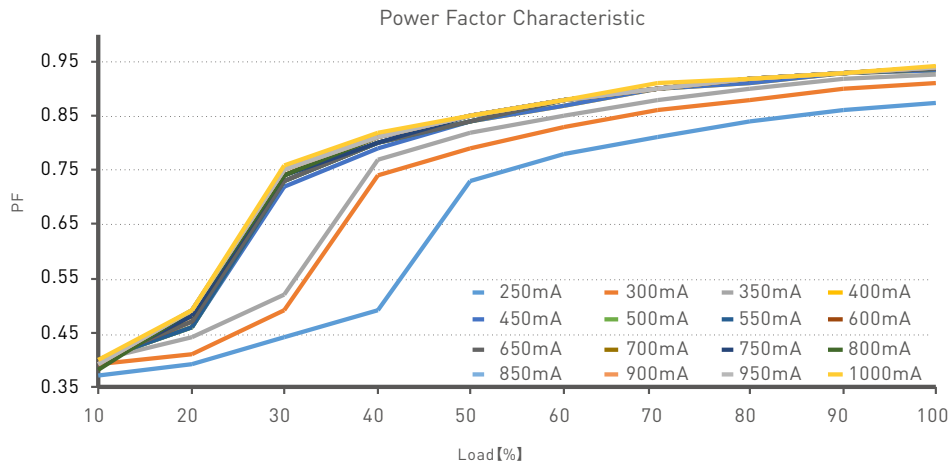
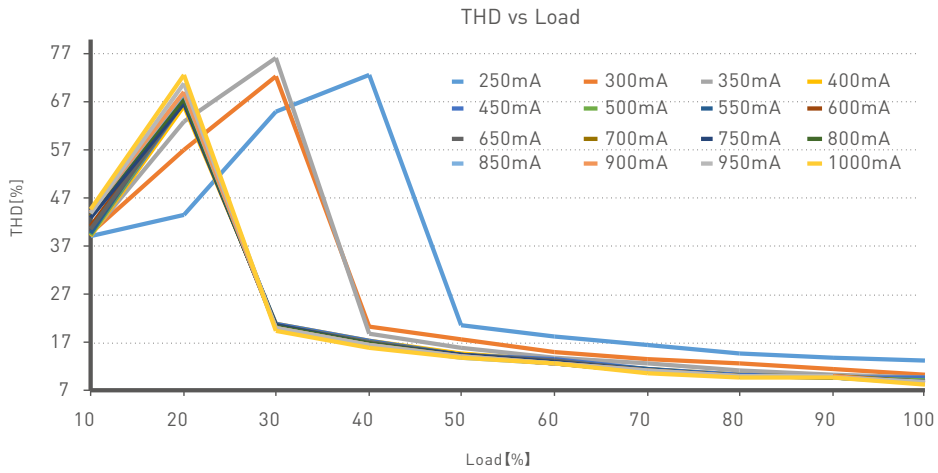
LTECH RDM editor App interface instruction

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.

Relationship Diagrams



* 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.