SE-20-250-1000-W2M2

LED Intelligent CT Driver(constant current)

- Dimming interface: DMX512/RDM, Push DIM.
- ${}^{\bullet}$ T-PWM ${}^{^{\scriptscriptstyle{\mathsf{T}}\!\!\!\!\!\!\!}}$ digital dimming,present a perfect visual experience.
- With RDM remote device management protocol.
- Dimming range: 0~100%, LED start at 0.1% 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 level.
- 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 OV 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).











Dimming interface:	DMX512/RDM, Push DIM
Input voltage:	100-240Vac (120-300Vdc)
Frequency:	50/60Hz
Input current:	115Vac≤0.25A, 230Vac≤0.13A
Output current:	250-1000mA
Output power:	Max. 20W
Power factor:	PF>0.95/115Vac , PF>0.90/230Vac, at full load
THD:	230Vac@THD≤9%, at full load
Efficiency:	83%
Standby power Loss:	<0.5W
Inrush current(typ.):	Cold start 10A at 230Vac (twidth=40 μs measured at 50% lpeak)
Anti surge:	L-N: 2kV
Leakage current:	<0.24mA/230Vac



LF current ripple(<120Hz):
Current accuracy:
Ripple & Noise:
PWM dimming frequency:
Working temperature:
Working humidity:
Storage temp., humidity:
Temp. coefficient:
Vibration:

±5% ≤2V ≤3600Hz ta: -20 ~ 50°C tc: 75°C 20 ~ 95%RH, non-condensing -40 ~ 80°C, 10~95%RH ±0.03%/°C[0-50°C]

10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.

LED current selection

DIP switch for 16 optional currents' quick selection(see the table below).

Choose current via DIP switch



	DIP switch		1117	1171	117T	1711	1717	1771	\pm T T T	
	Output current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	Í Í
	Output voltage	9-54V	9-54V	9-54V	9-50V	9-45V	9-40V	9-37V	9-34V] _
SE-20-250-1000-W2M2	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	ON OFF
3L-20-230-1000-W2M2	DIP switch	7444	于古古王	****	T & T T	TT	「 丁 山 丁 」	TTT	TTTT	
	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 ${\geqslant}102\%$, 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:
Isolation resistance:
Safety standards:
EMC emission:
EMC immunity:
Strobe test standard:

I/P-O/P: 3750Vac I/P-O/P: 100M **Ω**/500VDC/25°C/70%RH IEC/EN61347-1, IEC/EN61347-2-13 EN55015, EN61000-3-2 Class C, IEC61000-3-3 EN61000-4-2,3,4,5,6,8,11, EN61547 IEEE 1789

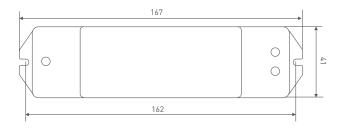
Others

Dimension:
Packing:
Weight(G.W.):

167×41×32mm(L×W×H) 168×43×35mm(L×W×H) 160g±10g

Dimensions

Unit: mm



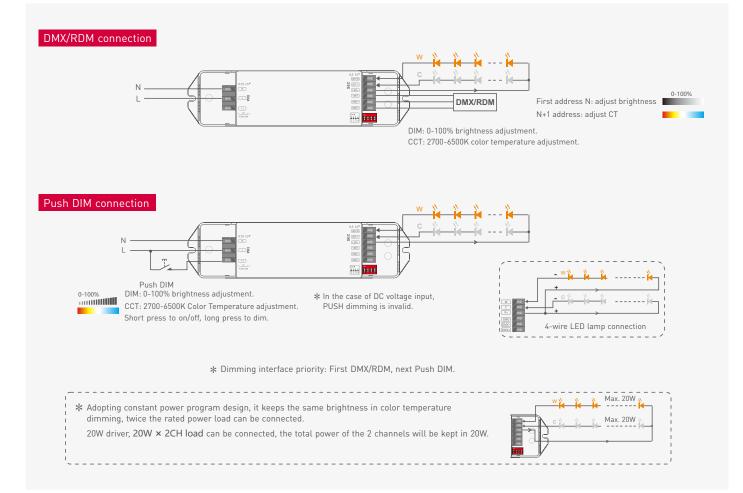


LTECH

DMX/RDM

PUSH DIM/CC1

Wiring diagram



Push DIM/CCT



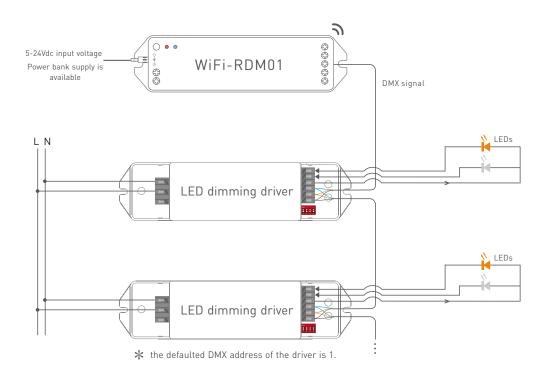
- On/off control: Short press.
- Stepless DIM/CT: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Reset switch



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:



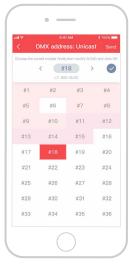


LTECH RDM editor App interface instruction

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

18	9:417		100%
1	Devic		+
	Channel 1	ID 1-	Program
C _24	5	62058B9980FA	4
2 512	3	62058B9980FA	∠
(ð) 🖪	a	6205BB9980FA	۷.
4 🛛 🔁	0	6205809980FA	4
Softwar, Jarsion: Device Model: LT-		Ь	
	C		





DMX address setting

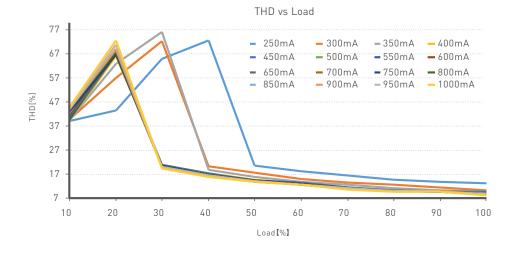
a: Click"Add", edited the address in corresponding box.

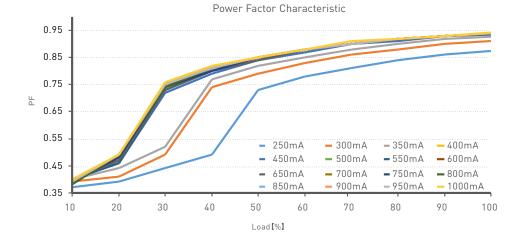
- b: Click"ID", get more product details. c: Click" ۞ ", enter setting interface

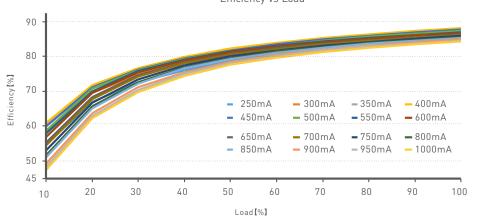
d: Click"No.", issue the recognizing command.



Relationship Diagrams







Efficiency vs Load





Flicker Test Form

 $f \leq 8Hz$

 $8Hz < f \leq 90Hz$

90Hz < f ≤ 1250Hz

f > 1250Hz

frequency of $f \leq 10$ Hz

 $10 \text{Hz} < f \leqslant 90 \text{Hz}$

90Hz < f ≤ 3125Hz

f > 3125Hz

Limit of Modulation in low risk area

Limit of Modulation in no effect area

Modulation Area Diagram High Frequency Exemption Area Diagram 100.00% IEEE 1789 High Risk 10.00% Modulation(%) IEEE 1789 No Effect 1.00% IEEE 1789 Low Risk 0.10% 10 100 1000 3125 10000 1 Frequency(Hz)

Marks in the right chart were tested results of different current ranges.

The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

IEEE 1789

0.2

 $0.025 \times t$

 $0.08 \times f$

Exemption assessment

0.1

0.01 × f

Exemption assessment (High frequency exemption)

(0.08/2.5)×

Brightness

▲ 0.1%

♦ 1%▲ 5%

▲ 5%♦ 10%

• 20%

30%

40%

★ 50%

60%

70%

80%

***** 90%

♦ 100%

* 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.