

LED Intelligent CT Driver

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

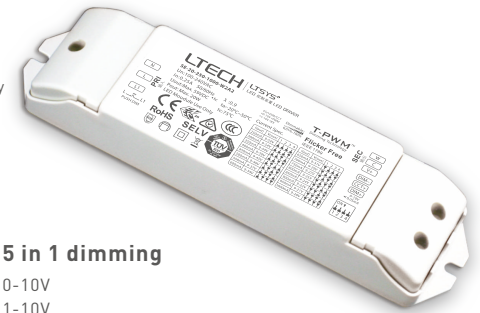
- Dimming interface: 0-10V (1-10V/10VPWM/RX), Push DIM.
- T-PWM™ digital dimming.
- With soft-on and fade in function, visual more comfortable.
- Achieve dimming or CT adjustment for 1CH 0-10V or 2CH 0-10V.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Automatic recognition of 0-10V, 1-10V input signal.
- DIP switch for 16 optional currents' quick selection.
- 0-100% flicker-free, High Frequency Exemption
- Ultra-low consumption of 0-10V ports: < 0.05mA.
- 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).

T-PWM™
Super depth dimming technology

Flicker-free

IEEE 1789

Dimmable:
0.01-100%



5 in 1 dimming

0-10V
1-10V
PWM
RX
Push DIM



DT8 CT adjustment

5 years
warranty



SELV Class 2
RoHS



The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.



Main characteristics

Dimming interface:	0-10V(1-10V/PWM/RX), Push DIM
Interface consumption:	<0.05mA @ 0-10V
Input voltage:	100-240Vac (120-300Vdc)
Frequency:	50/60Hz
Input current:	115Vac≤0.25A, 230Vac≤0.13A
Power factor:	PF>0.95/115Vac, PF>0.90/230Vac, at full load
THD	230Vac@THD≤10%, at full load
Efficiency:	83%
Standby power loss:	<0.5W
Inrush current(typ.):	Cold start 10A at 230Vac (twidth=40μs measured at 50% Ipeak)
Anti surge:	L-N: 2kV
Leakage current:	<0.24mA/230Vac
Output voltage:	9-54Vdc

Max output voltage:	59Vdc
Strobe level:	No video flicker / High frequency exemption assessment level.
Dimming range:	0~100%, 0.01% dimming depth.
LF current ripple(<120Hz):	<1%
Current accuracy:	±5%
Ripple & Noise:	≤2V
PWM dimming frequency:	≤3600Hz
Working temperature:	ta: -20 ~ 50°C tc: 75°C
Working humidity:	20 ~ 95%RH, non-condensing
Storage temp., humidity:	-40 ~ 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 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.

Others

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

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

LED Current Selection

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

Choose current via DIP switch

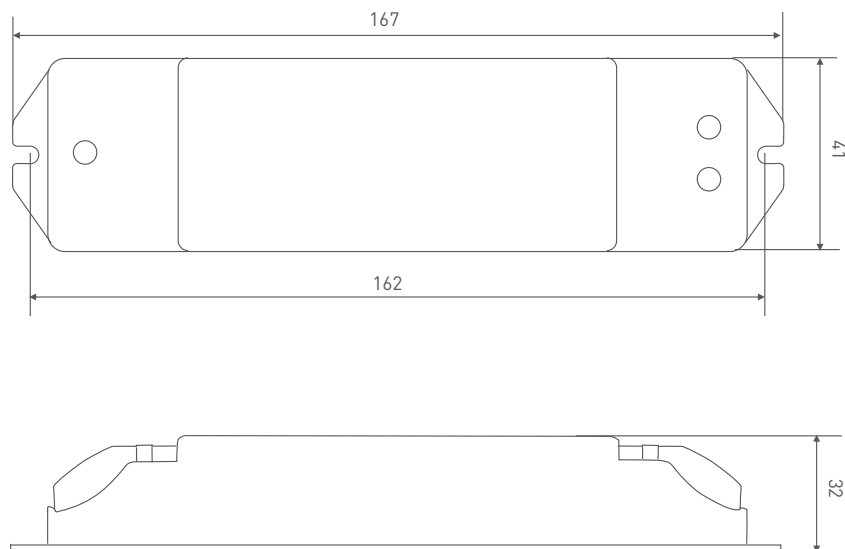


SE-20-250-1000-W2A2	DIP switch	⬇⬇⬇⬇	⬇⬇⬇⬆	⬇⬇⬆⬇	⬇⬆⬆⬆	⬆⬆⬆⬇	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	ON ⬆
	Output current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	
	Output voltage	9-54V	9-54V	9-54V	9-50V	9-45V	9-40V	9-37V	9-34V	
	Output power	2.25-13.5W	2.7-16.2W	3.15-18.9W	3.6-20W	4.05-20.25W	4.5-20W	4.95-20.35W	5.4-20.4W	
	DIP switch	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	⬆⬆⬆⬆	OFF ⬆
	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	

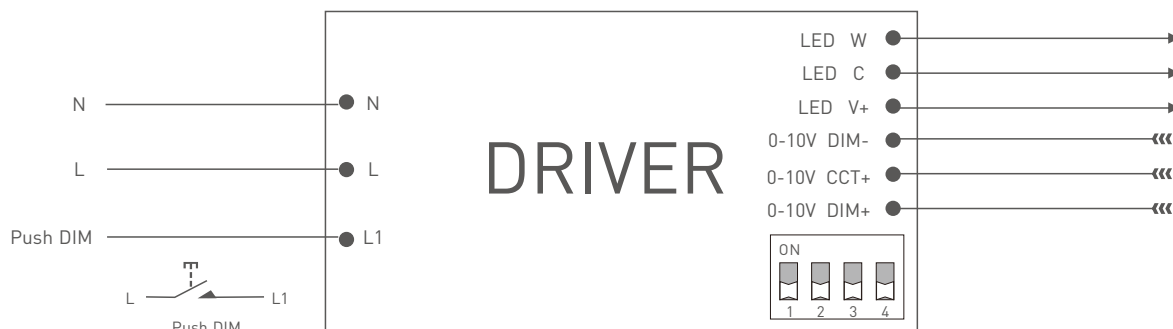
* Please choose the current value when the driver is power off.

Dimensions

Unit: mm



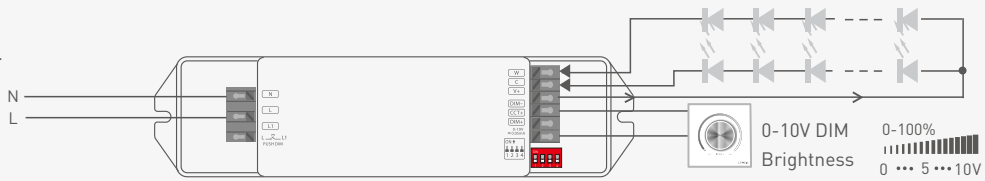
Wiring diagram



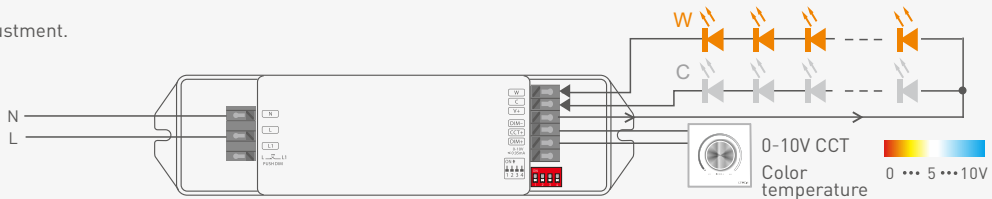
Wiring diagram

0-10V connection

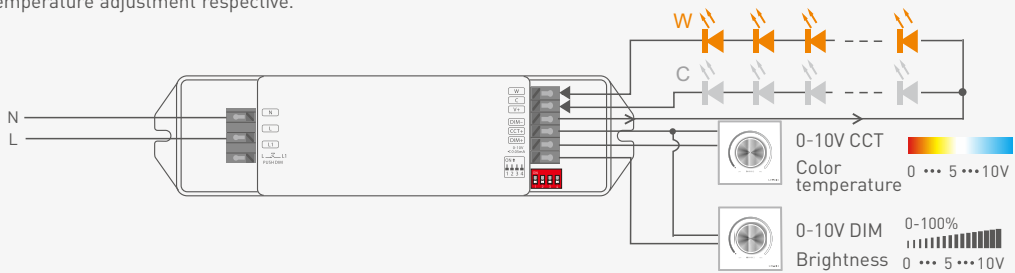
1. Brightness adjustment.



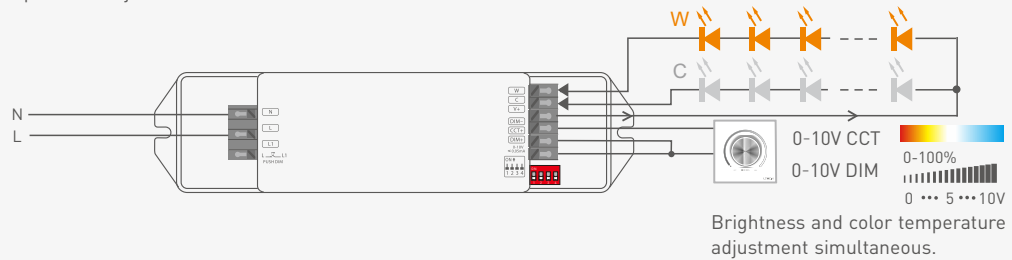
2. Color temperature adjustment.



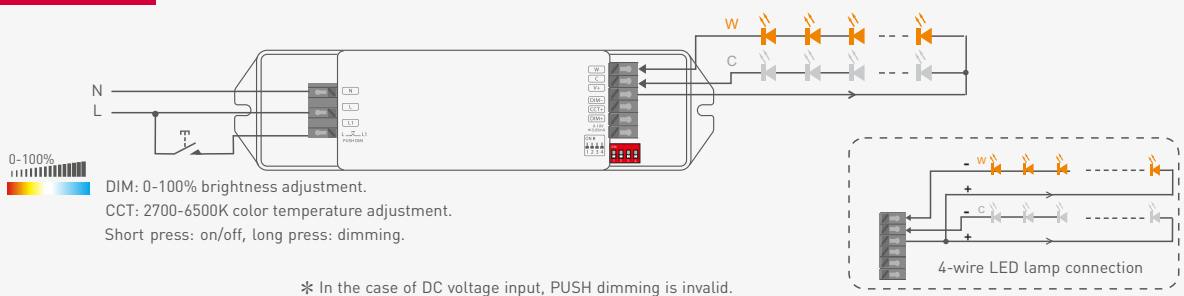
3. Brightness and color temperature adjustment respective.



4. Brightness and color temperature adjustment simultaneous.

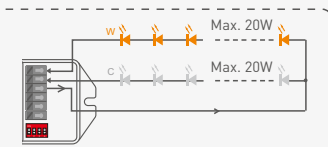


Push DIM/CCT connection



Dimming interface priority: First 0-10V, next Push DIM/CCT.

* 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.



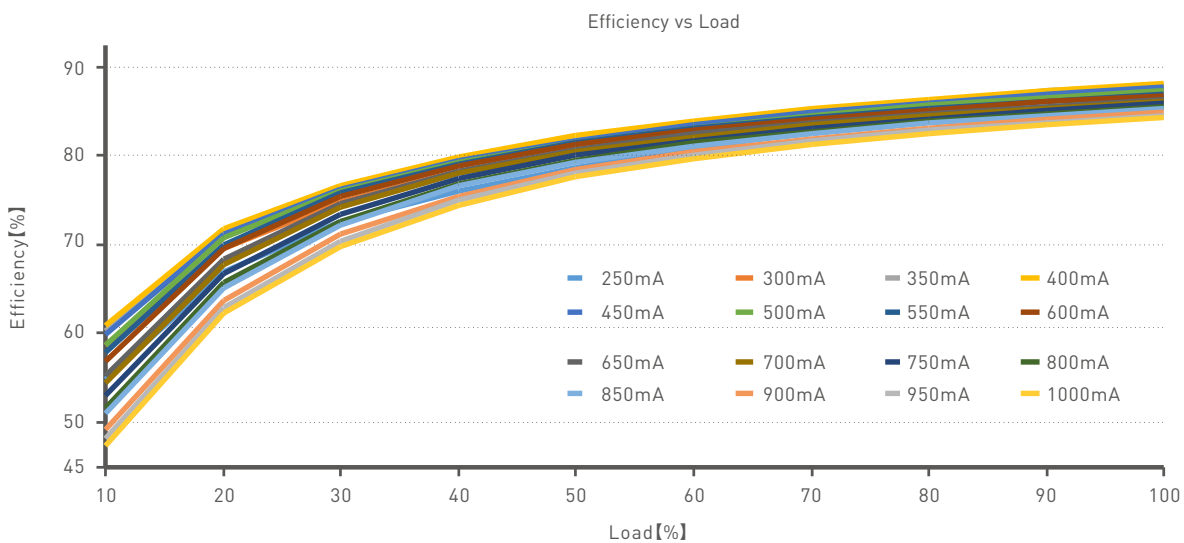
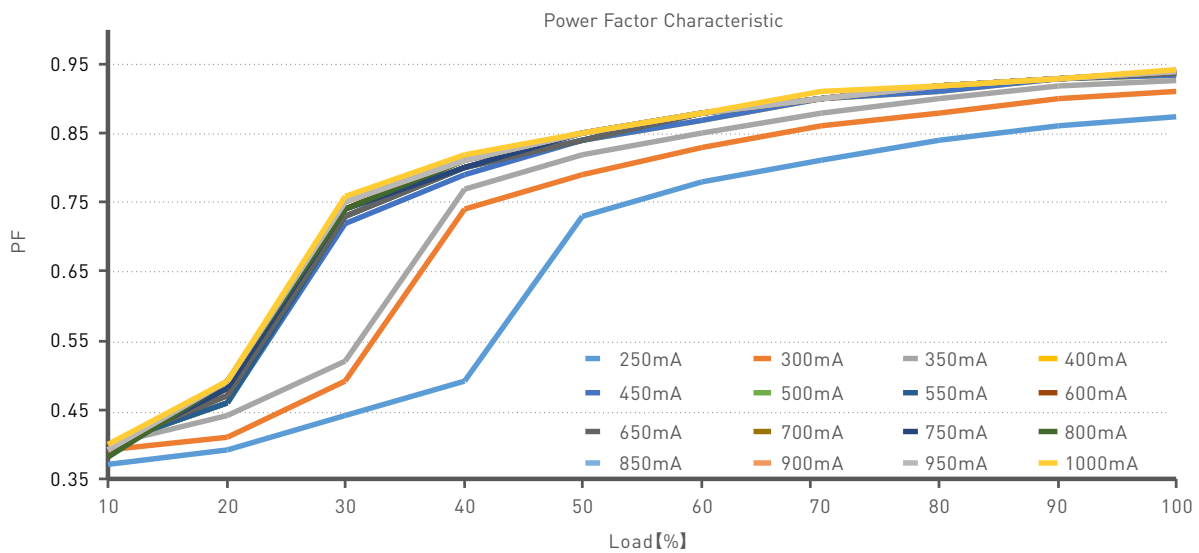
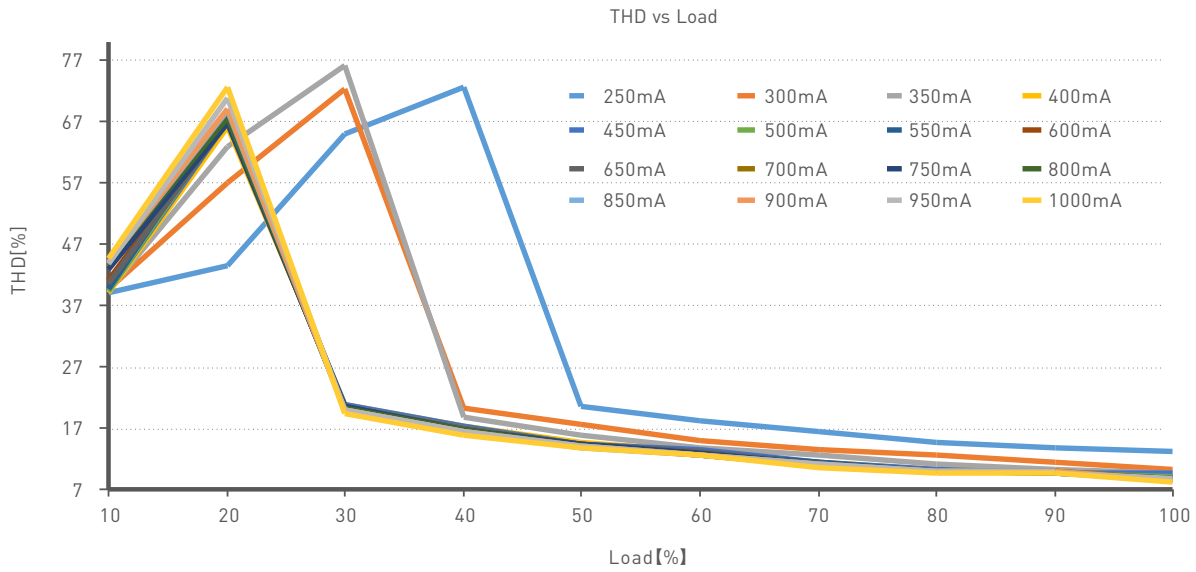
Push DIM/CCT



- 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

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.