SE-20-250-1000-W2R2





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

LED Intelligent CT Driver

- Control mode: RF 2.4GHz, Push DIM
- T-PWM[™] digital dimming, present a perfect visual experience.
- Dimming range: 0~100%, LED start at 0.1% possible.
- With soft-on and fade in function, visual more comfortable.
- 0-100% flicker-free, High frequency exemption level.
- Innovative thermal management technology, intelligent power life protection
- Over temp. / Over voltage / Over load / Short circuit protection, recover automatically.
- Suitable for internal lights application for I/□/□.
- Up to 50000-hour life time.
- 5 years warranty (Rubycon capacitor)





T-PWM

Flicker-free

IEEE 1789

Super depth dimming technology





Dimmable:

0.1%-100%











Tunable White













Main characteristics

Control mode: RF 2.4GHz. Push DIM Input voltage: 100-240Vac (120-300Vdc)

Frequency: 50/60Hz

Input current: 115Vac≤0.25A, 230Vac≤0.13A

Output current: 250-1000mA Max 20W Output power:

Power factor: PF>0.95/115Vac , PF>0.90/230Vac, at full load

THD 230Vac@THD≤9%, at full load

Efficiency:

Cold start 10A at 230Vac (twidth=40µs measured at 50% Ipeak) Inrush current(typ.):

Anti surge: L-N: 2kV

Leakage current: <0.24mA/230Vac

Output voltage: 9-5/Vdc Max. output voltage:

Almost flicker-free / High frequency exemption Strobe level:

assessment level.

0~100%, 0.1% dimming depth Dimming range:

(depend on the wireless master control).

LF current ripple(<120Hz): Current accuracy: ±5% Ripple & Noise: ≤2V PWM dimming frequency: ≤3600Hz

ta: -20 ~ 50°C tc: 75°C Working temperature: Working humidity: 20 ~ 95%RH, non-condensing -40 ~ 80°C, 10~95%RH Storage temp., humidity:

Temp. coefficient: ±0.03%/°C(0-50°C)

10~500Hz, 2G 12min./1cycle, period for 72min. Vibration.

each along X, Y, Z axes.

LED current selection

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

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

Choose current via DIP switch



SE-20-250-1000-W2R2	DIP switch	TTTT	1117	TTTT	A A T T	TITI	TIT	TTTT	ATTT	
	Output current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	ON OFF
	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	T T T T	TAAT	TITL	TATT	TTLL	TTAT	TTTL	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	

Protection

Over temp. protection: Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers

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

Others

167×41×32mm(L×W×H) Dimension: Packing: 168×43×35mm(L×W×H)

Weight(G.W.): 160q±10q

Safety & EMC

Withstand voltage: I/P-0/P- 3750Vac

Isolation resistance: I/P-0/P: 100MΩ/500VDC/25°C/70%RH IEC/EN61347-1, IEC/EN61347-2-13 Safety standards:

EMC emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3

EMC immunity: EN61000-4-2,3,4,5,6,8,11, EN61547

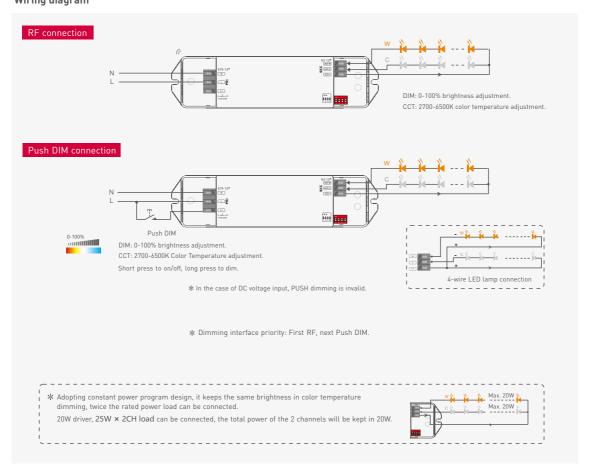
Strobe test standard: IEEE 1789

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Push DIM/CCT

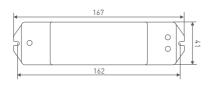


- On/off control: Short press.
- Stepless DIM/CT: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Reset switch

Dimensions

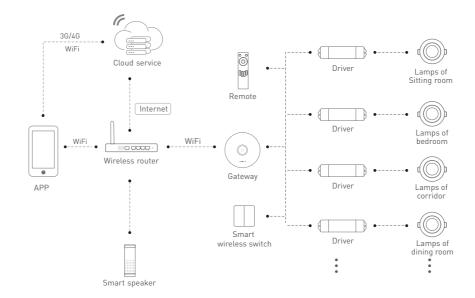
Unit: mm



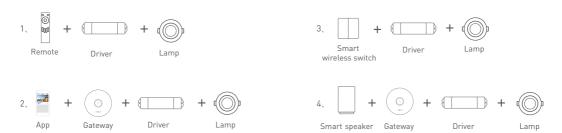








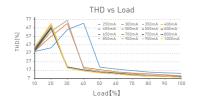
Multi control combination

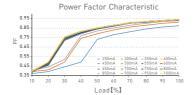


Other operating methods

When the driver works with remote control, gateway, intelligent wireless switch etc., please refer to the manual of the corresponding product for usage.

Relationship diagrams







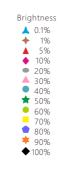


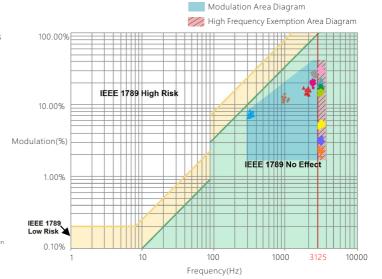


Flicker Test Form

IEEE 1789

Limit of Modulation in low risk area						
Waveform frequency of Optical output	limit (%)					
f ≤ 8Hz	0.2					
8Hz < f ≤ 90Hz	0.025 × f					
90Hz < f ≤ 1250Hz	0.08 × f					
f" > 1250Hz	Exemption assessment					
Limit of Modulation in no effect area						
Waveform frequency of Optical output	limit (%)					
f' ≤ 10Hz	0.1					
10Hz < f' ≤ 90Hz	0.01 × f					
90Hz < f ≤ 3125Hz	(0.08/2.5)× f					
f > 3125Hz	Exemption assessment					





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.

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.

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