



PRODUCT SPECIFICATION

Product description : 2.4G Wireless Air Self-inspection Sync

CCT Constant Current dimming Driver

Version : 1.0

1. PRODUCT PHOTO





2. FEATURES

- Isolated driver
- Adopting advanced PWM technology
- Higher efficiency, high PF, non-flicker
- Short-circuit protection, overvoltage protection
- High-quality delicate & soft dimming effect (4096 level)
- Memory function
- 2.4GHz wireless remote control, Air Self-inspection Sync control
- Compatible with Freelighting APP control system, achieve WIFI intelligent control by your mobile phone.
- Designed for constant current CW+WW LED Light Fixtures: like LED panel, LED ceiling lamps, LED down light etc.
- Widely used for intelligent household/commercial indoor lighting, like mall, hotel, office indoor lighting design.
- Certificate: CE/EMC/RED/RoHS
- 3 years warranty White color



3. TECHNICAL PARAMETERS

Electrical performance tests based on condition of ambient temperature:25 ° C ± 10%, and 230VAC / 50HZ input **Factor** Index 38W 25W Voltage range 90-264VAC 90-264VAC Frequency range 47-63Hz 47-63Hz 0.25A (full load) 0.23A (full load) Rated Current Surge current <50A <62A ≤1.3W ≤0.7W Input Standby power Efficiency >85%(full load) >83%(full load) Power factor (PF) ≥0.91 0.5 Three lines input (L/N/FG, FG as Port Three lines input (L/N/FG) optional) No-Load Voltage 23V (12-21V), 44V (24V-42V) 53V Voltage range 18V-42VDC 12-21V or 24V-42VDC Led string 6-12 LEDs 4-6 LEDs or 8-12 LEDs **Rated Current** 300mA-1000mA /300mA-600mA 650mA-900mA Maximum power 38W (CW+WW) 25W (CW+WW) supply **Output Current Accuracy** ±5% ±5% 3KHz 1KHz PWM frequency Dimming level 1024 1024 Dimming range 3-100% 3-100% Camera effect non-flicker non-flicker Three lines output, common Three lines output, common Port anode anode Power supply solution isolated power supply isolated power supply Ambient temperature Ta -20~45℃ -20~45℃ 85℃ 85℃ (based on work environment (based on work environment Case temperature Tc temperature at 45°C, And Max temperature at 45°C, And Max power supply) power supply) -40~85℃ -40~85℃ Reliability Storage temperature (relative humidity 20% - 90% (relative humidity 20% - 90% non-condensing) non-condensing) 31000hours(based on work 50000 hours(based on work environment temperature environment temperature Life time 25°C±10%, 230VAC input, 25℃±10%, 230VAC input, Maximum power load, Case Maximum power load, Case temperature 72°C) temperature 65°C) Warranty 3years 3years



	CE - LVD	EN61347-1、EN61347-2-13				
Safety and EMC	CE - EMC	EMI (EN55022、EN61000-3-3)				
		EMS (EN55024、EN61000-4-2, 3,4,5,6,11)				
	Withstand voltage	I/P-O-P:3.75KVAC (I/P-FG)1.5KVAC (O/P-FG) 1.5KVAC				
		≥100MΩ(based on environment temperature at25°C±10°C,relative				
	Insulation resistance	humidity below 70%, applied voltage at 500VDC between: input and				
		output, input and GND, output and GN, time is 60s.				
	Dustproof waterproof					
	level	IP40	IP40			
	Overvoltage protection	Yes (Maximum 53V)	Yes(Maximum 44V)			
protection	Short-circuit protection	Yes (Into the intermittent mode	Yes (Into the intermittent mode			
		when short circuit, short circuit	when short circuit, short circuit			
		relieve automatically restore	relieve automatically restore the			
		the output)	output)			
	Frequency of RF					
	remote control	2.4GHz	2.4GHz			
	Remote control distance	30m	30m			
Others	Memory function	Yes	Yes			
	G.W	165g	140g			
	Product dimensions	L135*W45*H31mm	L115*W45*H31mm			
	Packing dimensions	L140*W48*H35mm	L140*W48*H35mm			
		the sum current of two channels for CCT driver don't exceed the				
	Remark	maximum value of single channel current, that is, the maximum				
		brightness is : 50%CW+50%WW.				

4. CASE TEMPERATURE TC AND DRIVER LIFE CURVE4

1) 38W drivers

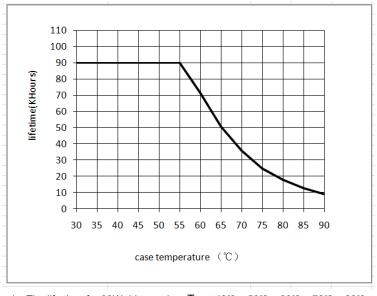


Figure 1 The life time for 38W drivers when Tc at 40°C , 50°C , 60°C , 70°C , 80°C , 90°C



2) 25Wdrivers

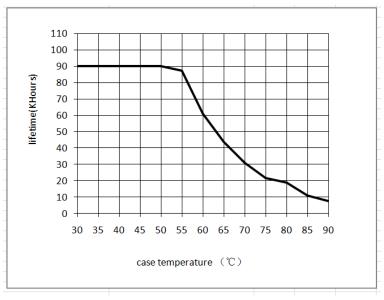


Figure 2 The life time for 25W drivers when Tc at 40 $^\circ$ C, 50 $^\circ$ C, 60 $^\circ$ C, 70 $^\circ$ C, 80 $^\circ$ C, 90 $^\circ$ C

5. MAIN-PRODUCT CODE AND PARAMETERS

1) 38W regular models and parameters

Models	Watt	Output current	Output voltage	Led string
ESWT-38-90CDH	38W	900mA	18-42V DC	6∼12 LEDs
ESWT-36-85CDH	36W	850mA	18-42V DC	6∼12 LEDs
ESWT-34-80CDH	34W	800mA	18-42V DC	6∼12 LEDs
ESWT-32-75CDH	32W	750mA	18-42V DC	6∼12 LEDs
ESWT-30-70CDH	30W	700mA	18-42V DC	6∼12 LEDs
ESWT-27-65CDH	27W	650mA	18-42V DC	6∼12 LEDs

2) 25W regular models and parameters

Models	Rated	Rated current	Voltage range	Led string	
	power	per channel			
ESWT-25-60CDL	25W	600mA	24-42V DC	8∼12 LEDs	
ESWT-21-50CDL	21W	500mA	24-42V DC	8∼12 LEDs	
ESWT-19-45CDL	19W	450mA	24-42V DC	8∼12 LEDs	
ESWT-17-40CDL	17W	400mA	24-42V DC	8∼12 LEDs	
ESWT-15-35CDL	15W	350mA	24-42V DC	8∼12 LEDs	
ESWT-13-30CDL	13W	300mA	24-42V DC	8∼12 LEDs	
ESWT-21-100CDL	21W	1000mA	12-21V DC	4∼6 LEDs	
ESWT-19-90CDL	19W	900mA	12-21V DC	4∼6 LEDs	
ESWT-17-80CDL	17W	800mA	12-21V DC	4∼6 LEDs	
ESWT-15-70CDL	15W	700mA	12-21V DC	4∼6 LEDs	
ESWT-13-60CDL	13W	600mA	12-21V DC	4∼6 LEDs	

Remark: Please confirm with EVERSTAR for other parameters



6. INTERFACE SPECIFICATION

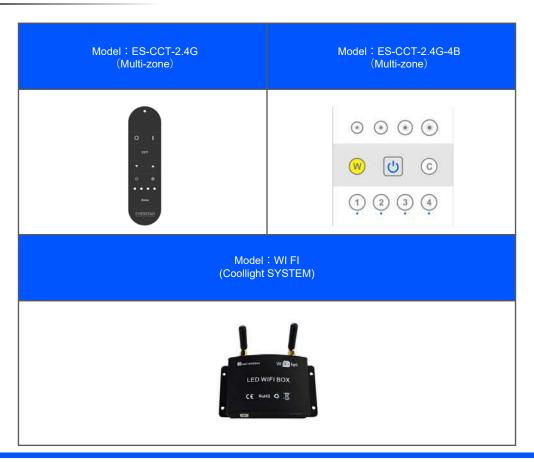
(Three lines output, common anode)



Wire specifications recommend:

Input wire: three-core PVC plastic wire H05VV-F , diameter =0.72mm, VDE certificate, core 3*1.0mm2. 300/500V, Stripping 11mm and tin dipping 3mm for the end of wire which is directly connect with the driver. **Output wire:** three-core PVC plastic wire, diameter =0.5mm. Stripping 11mm and tin dipping 3mm for the end of wire which is directly connect with the driver.

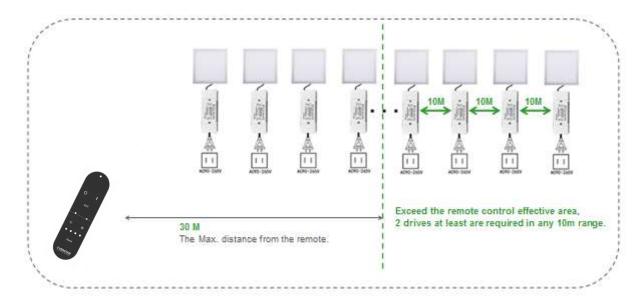
7. PRODUCT COMPATIBILITY (REMOTE CONTROL OPTIONAL)



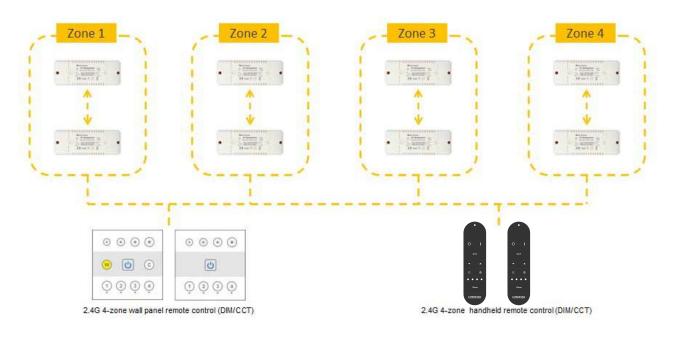


8. TYPICAL APPLICATIONS

- 1) Compatible with more kinds of remote control, Any combination is okay according to the project requirement.
- 2) Air Self-inspection Sync technology make it has more excellent wireless synchronization function rather than other similar products. Especially, more led drivers(No limited) can be wireless-connected and sync controlled by one remote control, No longer be limited by remote control distance.



(3) Typical applications for 4 zones remote control, more drivers can be sync controlled in each zone, 4 zones can be controlled both separately and overall.





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9. TIPS:

- 1) If the lamp turned off by remote control, it also can restart the lamp directly by the AC power switch(No-flicker driver need to restart after turn off the power switch and discharge for 5s.
- 2) If the lamp is light up without any operation in 167 hours, the driver will turn off the lamp automatically. It
- will recount the time if there is any operation from power switch or remote control.
- 3) Each driver can save unique RF codes(for remote control) and unique wifi code(for wifi control). You
- can copy the RF code between remotes when more than one remote are needed. Please get the operation instruction from the remotes specification.
- 4) Memory function, each time power-on reserve the mode which stop in the last power-down.

