

LED Intelligent Driver

- Dimming interface: DALI.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- DALI dimming curve: liner curve or logarithmic curve.
- 0~100% flicker-free, achieve the level of high frequency exemption assessment.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- DALI bus standard: IEC62386-101,102, 207.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I /II/III.



Dimmable:

 0.1%-100%

Flicker-free

Achieve high frequency exemption assessment level.



SELV



RoHS

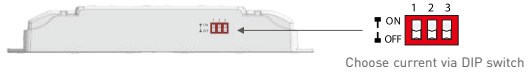


Specification

Model		SE-12-100-400-W1D	SE-12-350-700-W1D
OUTPUT	Output Voltage	10-42Vdc	3-24Vdc
	Max Output Voltage	50Vdc	35Vdc
	Output Current	100-400mA	350-700mA
	Output Power Range	1W-12W	1.05W-12W
	Strobe Level	High frequency exemption assessment level.	
	Dimming Range	0-100%, 0.1% dimming depth.	
	LF current ripple(<120Hz)	<2%	
	Current Accuracy	±5%	
	Ripple & Noise	≤2V	
PWM Dimming Frequency	3600Hz		
INPUT	Dimming Interface	DALI	
	Input Voltage	100-240Vac	
	Frequency	50/60Hz	
	Input Current	0.25A@115Vac, 0.15A@230Vac	
	Power Factor	PF>0.97/115Vac, PF>0.85/230Vac, at full load	
	THD	≤16% at 115Vac, ≤28% at 230Vac, at full load	≤16% at 115Vac, ≤25% at 230Vac, at full load
	Efficiency	80%	78%
	Inrush Current(typ.)	Cold start 5A at 230Vac	
	Anti Surge	L-N: 1kV	
Leakage Current	<0.5mA/230Vac		
ENVIRONMENT	Working Temperature	ta: -30°C ~ 50°C tc: 75°C	ta: -30°C~ 50°C tc: 85°C
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40°C ~ 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-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, and the output current will be restored automatically when the temperature comes normal.	
	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.	
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-PAR 1789	
OTHERS	Dimension	135×30×20mm(L×W×H)	
	Packing	140×34×23mm(L×W×H)	
	Weight(G.W.)	80g±10g	

LED current selection

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



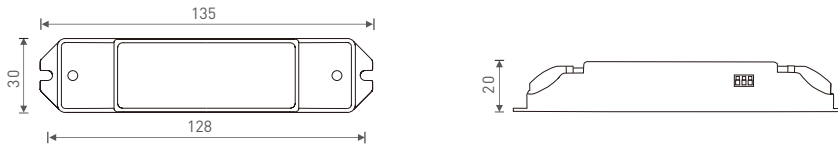
SE-12-100-400-W1D	DIP Switch	⬇ ⬇ ⬆	⬇ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA		ON
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-40V	10-34V	10-30V		⬇
	Output Power	1-4.2W	1.5-6.3W	2-8.4W	2.5-10.5W	3-12W	3.5-12W	4-12W		OFF

SE-12-350-700-W1D	DIP Switch	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆ ⬆ ⬆	⬆
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	ON
	Output Voltage	3-24V	3-24V	3-24V	3-24V	3-22V	3-20V	3-18.5V	3-17V	⬆
	Output Power	1.05-8.4W	1.2-9.6W	1.35-10.8W	1.5-12W	1.65-12.1W	1.8-12W	1.95-12W	2.1-12W	OFF

* After current setting by DIP switch, power off and then power on to make the new current effective.

Dimensions

Unit : mm



Wiring diagram

