



General

Product Type	Constant Current Driver
Length (mm)	135
Width (mm)	30
Height (mm)	20
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	85

Electronics

Input Domain	AC
Input Voltage	100 ~ 240V AC
Output Voltage	10 ~ 42V DC
Output Current (mA) max/output	100~400
Output Power Range (W)	1~12
Power Supply	Internal
LED Outputs	1
Anti Surge	L-N: 1kV
Efficiency	80%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	50 ~ 60Hz
Inrush Current	5A @230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CC
Control	0-10V
Dimming Range	0~100%
Number of Channels	1

Protection

Protection Class	II
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Environmental

Operating Temperature	-30 ~ +50 °C
Ingress Protection	IP20

CE IP20

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



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LED Intelligent Driver

- Dimming interface: 0-10V (1-10V/10VPWM/RX).
- T-PWM™ digital dimming, present a perfect visual experience.
- Built-in SCM, dimming curve and smoothing time can be customized.
- Automatic recognition of 0-10V, 1-10V input signal.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Flicker-free (IEEE 1789), achieve the level of exemption assessment.
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I / II/III.

T-PWM™

Super depth dimming technology

Flicker-free

IEEE 1789

Dimmable:

0.01~100%

SELV



RoHS



4 in 1 dimming

0-10V

1-10V

PWM

RX

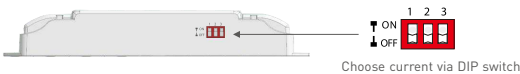


Specification

Model		SE-12-100-400-W1A	SE-12-350-700-W1A
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%, 0.01% dimming depth.	
	LF current ripple(<120Hz)	<2%	
	Current Accuracy	±5%	
	Ripple & Noise	≤2V	
	PWM Dimming Frequency	≤3600Hz	
INPUT	Dimming Interface	0-10V (1-10V/10VPWM/RX)	
	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	
	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 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).



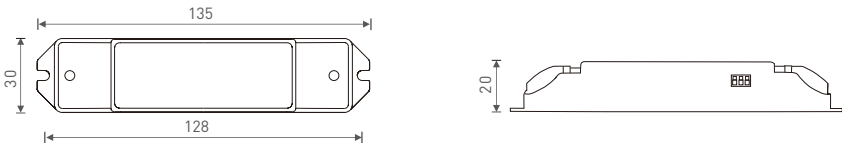
SE-12-100-400-W1A	DIP Switch										
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA			
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-40V	10-34V	10-30V			
	Output Power	1-4.2W	1.5-6.3W	2-8.4W	2.5-10.5W	3-12W	3.5-12W	4-12W			

SE-12-350-700-W1A	DIP Switch										
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA		
	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		

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

Dimensions

Unit : mm



Wiring diagram

