

## LED Intelligent Driver



- Dimming interface: 0-10V(1-10V/10VPWM/RX), Push DIM
- Built-in SCM, dimming curve and smoothing time can be customized.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Over load / Over-heat / Short circuit protection.
- 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

**4 in 1 dimming**  
0-10V  
1-10V  
PWM  
RX

**Flicker-free**  
IEEE-PAR 1789

Dimmable:  
.....  
0.01-100%

SELV



**RoHS**



### Specification

Model	AD-10-100-400-F1P1	AD-10-350-700-F1P1	
<b>OUTPUT</b>	Output Voltage	10-45Vdc	3-24Vdc
	Max Output Voltage	47Vdc	26Vdc
	Output Current	100-400mA	350-700mA
	Output Power	Max. 10W	
	Strobe Level	Exemption assessment level.	
	Dimming Range:	0~100%, LED start at 0.01% possible.	
	LF current ripple(<120Hz)	<2%	
	Current Accuracy	±5%	
	Ripple & Noise	≤2V	
	PWM Frequency	3600Hz	
<b>INPUT</b>	Dimming Interface	0-10V (1-10V/10VPWM/RX)	
	Input Voltage Range	100-240Vac	
	Frequency	50/60Hz	
	Input Current	0.2A@115Vac, 0.15A@230Vac	
	Efficiency	>81%	>80%
	Inrush Current(typ.)	Cold start 20A at 230Vac	
	Control surge capability	L-N: 1kV	
	Leakage Current	<0.5mA/230Vac	
<b>ENVIRONMENT</b>	Working Temperature	ta: -30°C ~ 55°C tc: 80°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.	
<b>PROTECTION</b>	Over Load Protection	When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.	
	Over-heat Protection	PCB temp.: >110°C, shut down; 100°C~110°C, output power reduces to 50% of current power; <90°C, normal.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.	
<b>SAFETY &amp; EMC</b>	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	
<b>OTHERS</b>	Dimension	135×30×320mm(L×W×H)	
	Packing	140×34×23mm(L×W×H)	
	Weight(G.W.)	80g±10g	

## LED Current Selection

Note: Please specify the output current when make orders.

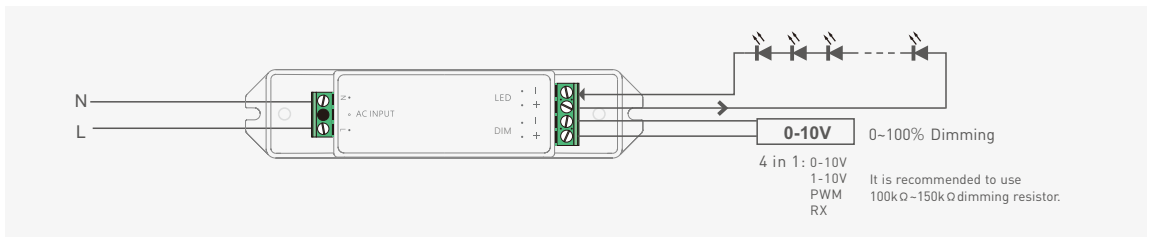
If you need to change the output current in special cases, please open the housing in outages and select the current by built-in DIP switch on the PCB.



DIP Switch		↓ ↓ ↓	↓ ↓ ↑	↓ ↑ ↑	↑ ↓ ↓	↑ ↓ ↑	↑ ↑ ↓	↑ ↑ ↑	↑ ↓ ON OFF
AD-10-100-400-F1P1	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	
	Output Voltage	10-45V	10-45V	10-45V	10-40V	10-33V	10-28V	10-25V	
	Output Power	1-4.5W	1.5-6.75W	2-9W	2.5-10W	3-9.9W	3.5-9.8W	4-10W	

DIP Switch		↓ ↓ ↓	↓ ↓ ↑	↓ ↑ ↑	↑ ↓ ↓	↑ ↓ ↑	↑ ↑ ↓	↑ ↑ ↑	↑ ↓ ON OFF
AD-10-350-700-F1P1	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	700mA	
	Output Voltage	3-24V	3-24V	3-22V	3-20V	3-18V	3-16V	3-14V	
	Output Power	1.05-8.4W	1.2-9.6W	1.35-9.9W	1.5-10W	1.65-9.9W	1.8-9.6W	1.95-9.75W	2.1-9.8W

## Wiring Diagram



## Dimensions

Unit : mm

