



Quanzhou Smarts Electronic & Technology Co.,Ltd  
 7th floor No. 3 Building No. 928 Nanhuan Road, Licheng Dist. Quanzhou, Fujian, China  
 Tel.:+86 (595) 2725 6889 / Fax:+86 (595) 2246 5526 / phone:(+86) 1348 9577 737  
 E-mail: [steven@smartselectronic.com.cn](mailto:steven@smartselectronic.com.cn) / [sales1@smarts-electronics.com](mailto:sales1@smarts-electronics.com)  
 Skype: steven821228

## Ultra slim type 60W , 100-277VAC constant voltage LED driver

### Features:

- Output constant voltage
- Input voltage range 100-277VAC
- UL/ cUL listed, Class 2, Class P, CE, ROHS approval
- Built-in PFC function / Efficiency > 83% / PF> 0.99
- Protections: short circuit/over voltage/over heat
- IP20 design for indoor dry environment installations
- Cooling by free air convection
- Full protection aluminum housing, for dry, damp, wet location
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 7 years warranty



### Specification



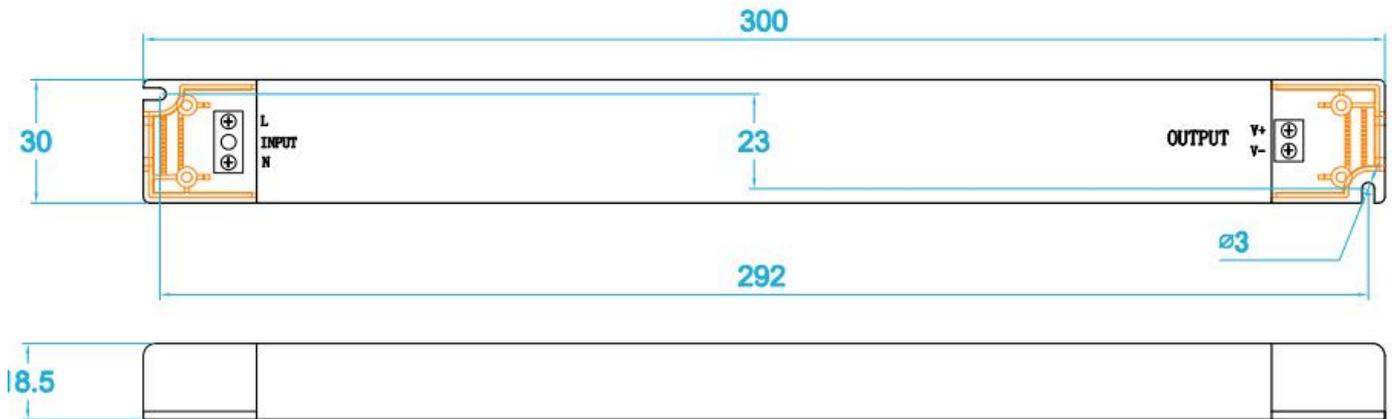
model		SMT-012-060VWSP	SMT-024-060VWSP
Output	DC Voltage	12VDC	24VDC
	Voltage Accuracy	±5%	±5%
	Rated current	5.0Amp	2.5Amp
	Rated power	60W	60W
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277 VAC	
	Frequency Range	47~63HZ	
	Power Factor ( Typ. )	PF ≥ 0.99/110V ; PF ≥ 0.98/230V ; PF ≥ 0.97/277V	
	Full Load Efficiency ( Typ. )	82%@120VAC ; 84%@230VA	84%@120VAC; 86%@230VAC; 86%@ 277VAC
	AC Current ( Typ. )	0.75A/100VAC / 0.2A/277VAC	
	Inrush Current ( Typ. )	7A, 50%, 420us @120VAC ; 30A,50% 90us@230VAC; 12A,50%480us@277VAC	
	Leakage current	<0.5mA/110VAC; < 0.2mA/277VAC	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.	
	Over Loading	≤120% shut down o/p voltage, re-power on to recover	
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60°C	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEM., Humidity	-40~+80°C, 10~95%RH	
	TEMP. coefficient	±0.03%/°C ( 0~50°C )	
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes	
Safety standards	EN61347-1 EN61347-2-13		



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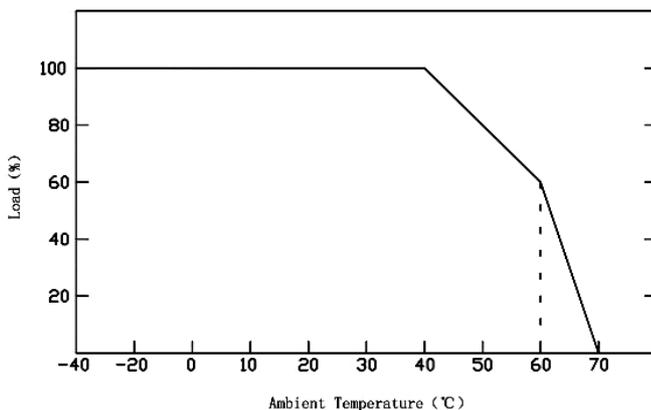
	Withstand voltage	I/P-O/P: 3.75KVAC
	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 (≥60%load)
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry
<b>Others</b>	Weight	0.45Kg
	Size	300*32*18.5mm (L*W*H)
	packing	50PCS/CTN
<b>Notes</b>	1. All parameters NOT specially mentioned are measured at 110VAC, 277VAC input , Rated load and 25°C of ambient temperature. 2. Tolerance:includes set us tolerance,line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation,the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

### ■ Mechanical Specification



- ◇ Input: 18AWG Black and White to be connected to AC L and N ,Green wire go ground,
- ◇ Output: Red is (Positive side +) ,Black is (Negative side -)

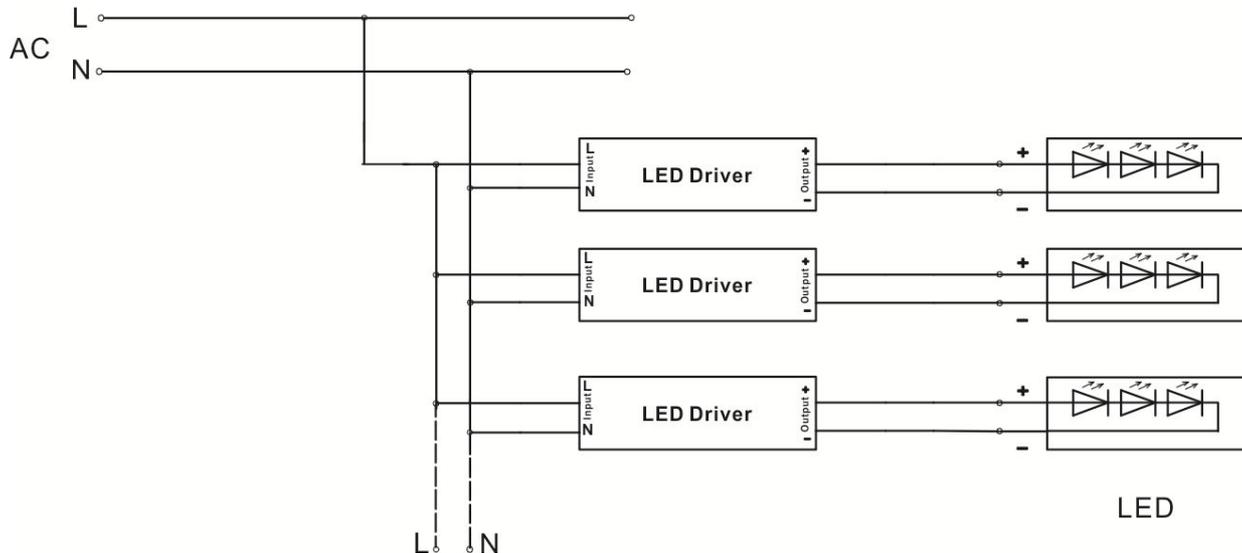
### ■ Derating Curve





- Load carried in accordance with the load derating curve, according to the ambient temperature derating, in order to extend the service life

#### ■ Connecting Diagram



#### ■ Simple Connection Diagram



#### ■ Instruction:

- ※ This driver should be installed by qualified and professional person;
- ※ Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- ※ Ensure that wiring is correct before test in order to avoid light and power supply damage;
- ※ If the LED drivers do not work normally, pl. don't maintain privately, but contact us:  
[sales1@smartselectronics.com](mailto:sales1@smartselectronics.com) Or take a phonecall: 0086-595-22863721ext. 808

To know more about us, pl. Login our official website: [www.smarts-electronics.com](http://www.smarts-electronics.com)