



Quanzhou Smarts Electronic & Technology Co.,Ltd  
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## Slim shape 36Watt, 100-277VAC constant voltage LED driver

### Features:

- Output constant voltage type
- Input voltage range 100-277VAC
- UL/cUL listed, Class 2, Class P approval
- Built-in PFC function / Efficiency > 84% / PF> 0.95
- Protections:short circuit/over voltage/over heat
- IP20 design for indoor dry environment installations
- Cooling by free air convection
- PWM output, does not change the color index
- 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



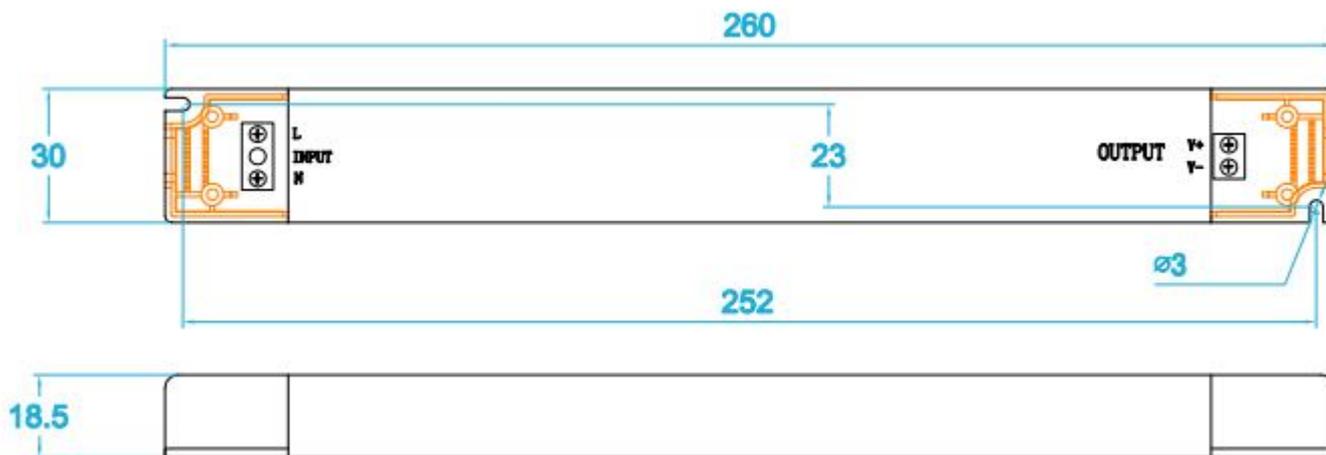
model		SMT-012-036VWSP	SMT-024-036VWSP
Output	DC Voltage	12VDC	24VDC
	Voltage Accuracy	±5%	±5%
	Rated current	3.0Amp	1.5Amp
	Rated power	36W	36W
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277 VAC	
	Frequency Range	47~63HZ	
	Power Factor ( Typ. )	0.99@120VAC 0.97@230VAC 0.95@277VAC	
	THD(Typ.)@ full load	<15%@120VAC <20%@230VAC <20%@277VAC	
	Full Load Efficiency	82%@120VAC ; 83%@230VAC; 84%@ 277VAC	
	AC Current ( Typ. )	7A, 50%, 420us @120VAC ; 30A,50% 90us@230VAC; 12A,50%480us@277VAC	
	Leakage current	<0.50mA	
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℃±10℃ shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60℃	
	Working Humidity	20~90%RH,non-condensing	
	Storage TEM.,Humidity	-40~+80℃, 10~95%RH	
	TEMP.coefficient	±0.03%/℃ (0~50℃)	



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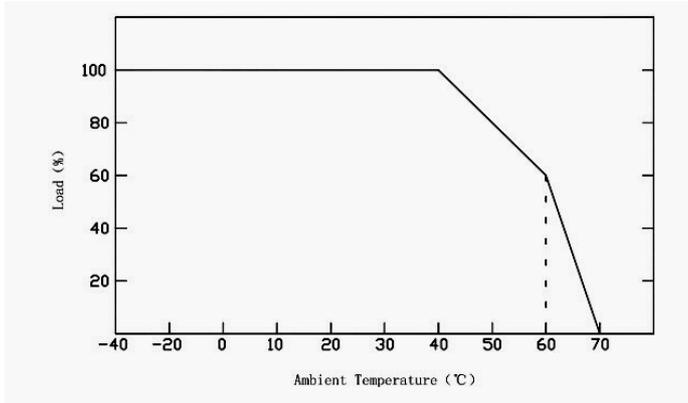
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes
<b>Safety&amp;EMC</b>	Safety standards	EN61347-1 EN61347-2-13
	Withstand voltage	I/P-O/P:3.75KVAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 (≥60%load)
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry
<b>Others</b>	Weight	0.20Kg
	Size	260*32*18mm (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



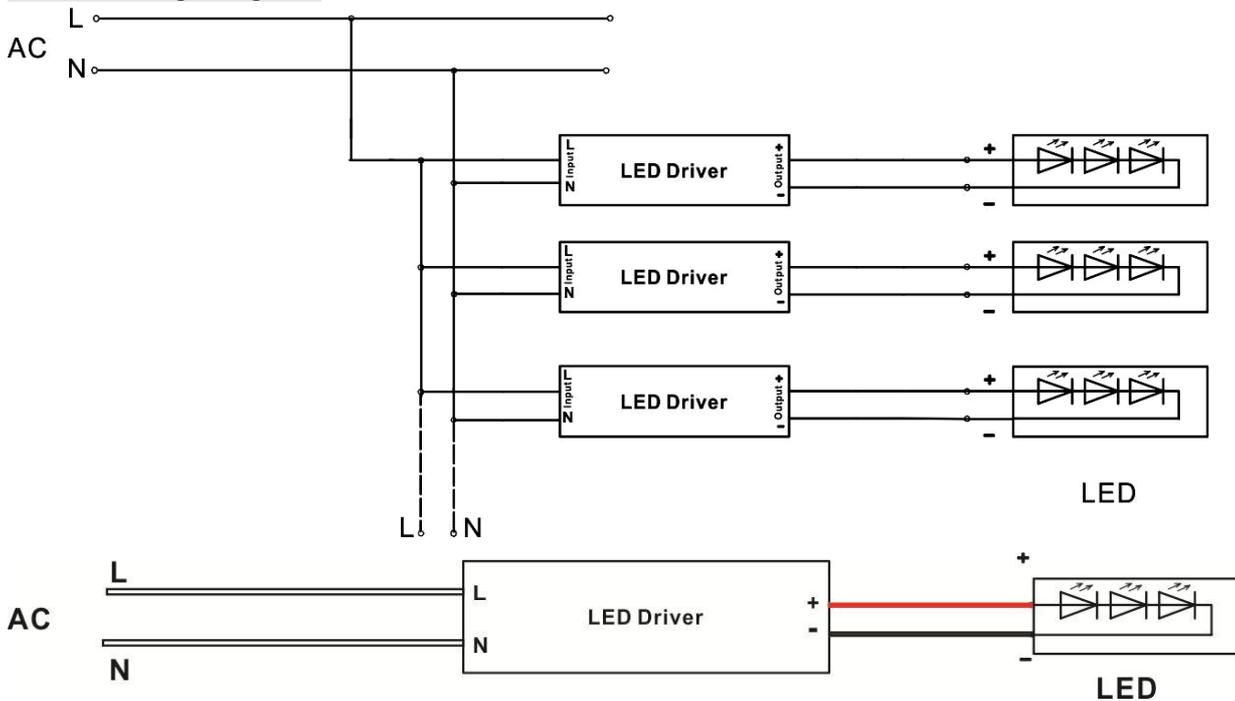
- ◇ Input:18AWG Black and White to be connected to AC L and N ,Green wire go ground,
- ◇ Output: Red is ( Possitive side + ) ,Black is ( Negative side - )

■ 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



#### ■ 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: 0086-595-22863721 ext.808

For more information, pl. Login Official website: [www.smarts-electronics.com](http://www.smarts-electronics.com)