



HAWYANG SEMICONDUCTOR CORP.

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## HYP-189

### High Efficiency LED Driver Board Specification

Design by :

Check by

App. by:

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## Product Specifications:

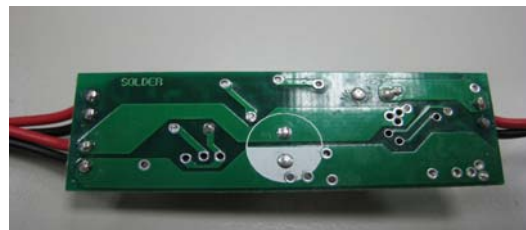
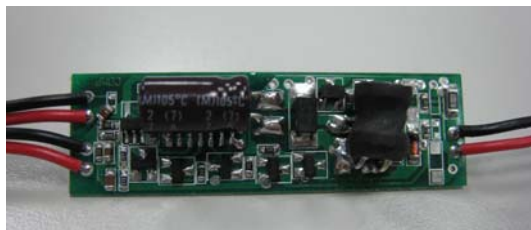
- Vin: DC 5-12V
- Constant Current Output, insure the LED use safety
- Uses Electronic Transformer Driver
- High-efficiency Driver Module
- 3-step Dimming
- Output over-voltage protection
- Capable of driving a variety of white colored high-power LED



**HYP-189** is a High Efficiency LED Driver Module mainly

applied to OLED composed artistic lamps, table lamps camp lamps or various light fixtures and equipments by using **single parallel** connected LEDs to achieve luminance requirements; with a maximum output current of 1AMP.

The module consists of 3-step electronic switch inside, using single-cycle mode to operate “shutdown” , “half-luminance” and “full-luminance” functions. The standby current can be decreased to under 1.5mA (**Vin=6**), suitable for using battery input or DC adapter as power supply. Users do no need to use additional power switch, making wiring easier during assembly; thus, it has the advantage when applied to portable light fixtures and equipments.



	Option	Parameter
Input	Working Voltage Range (V)	DC 5-12V
	Output Current (mA)	1A Max
	Efficiency (%)	80% ( <b>Vin:DC 9V Vout:3V</b> )
Output	Output Voltage (V)	DC 3V – 3.6V
	Output Power (W)	3.7W (Max)
	(Single)Constant Current & Accuracy (mA)	Half-Luminance : 500mA Full-Luminance : 1A (10%)
	Working Temperature (°C)	-10°C - +85°C
Others	Ambient Humidity (%)	20%-95%RH
	Outer Dimension(L x W) (mm)	50.5mm x15.5mm
	Protection Method	Output over-voltage ( <b>4V</b> ) protection