

LED Power Supply Specification


Jan. 5, 2009

Product: LED Power Supply

Model: ELP30-50LSD

Customer:

Edition: REV1.1

No.	Item	Technical Guideline	Remark
1	Input Voltage	220--240VAC $\pm 10\%$	
2	Input Current	$\leq 0.2A$	With trail edge dimmer, Loading: 10pcs 3W LED lamps.
3	Input Frequency	50/60Hz	
4	Power Factor	$\text{COS}\phi \geq 0.9$	With trail edge dimmer, Loading: 10pcs 3W LED lamps.
5	Output Voltage	$U_o \leq 50VDC$ (no load)	
6	Output Current	700mA (MAX)	With trail edge dimmer, Loading: 10pcs 3W LED lamps.
7	Length of the Output Wire	0.3-2m	
8	Load Range	18W to 30W	6 to 10pcs 3W LED Lamps
9	Load (max)	30W (max)	10pcs 3W LED Lamps
10	Dimming Range	Variation range of current : 70mA to 700mA	With trail edge dimmer, Loading: 10pcs 3W LED lamps.
11	Power Consumption (no-load)	$\leq 1W$	
12	Efficiency	$\eta \geq 80\%$	With trail edge dimmer, Loading: 10pcs 3W LED lamps.
13	Protection Class	IP20	Indoor use only
14	Electrical Strength	Input-output/enclosure 3750V/5mA/60S	
15	Short Circuit Protection	Auto-resume	
16	EMC Standard	EN55015, EN61547, EN61000-3-2, EN61000-3-3	
17	Safety Standard	EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6	
18	Dimension	140mm×45mm×27mm	
19	Color	White	
20	Ta	(0--50)°C	
21	Tc	80°C	
22	RoHS Request	Comply with RoHS requirement	
23	Photo		

Notes:

1. A switch is not allowed to connect in secondary.
2. Ambient temperature of testing: 25 °C; Input voltage: 240VAC。
3. Testing report enclosed.

User manual of LED DRIVER

1、 Model No.: ELP

2、 Technical Parameter

- a) Input voltage: 220-240VAC, 50/60Hz;
- b) Output: No load : 50VDC Max.
Load :DC700mA 21-35VDC; 18-30W ;

3、 Application and features

- a) Short circuit protection is available in output end;
 - b) Recommend with trail edge dimmer, but the LED driver itself doesn't have the dimmer function. It must connect with a dimmer to realize the function of dimming. However, the dimmer function is an option;
 - c) This LED driver could apply power for 18~30W LED load;
- If the LED load used with series-parallel mode, please concatenate a suitable current-limiting resistance in every series loop (figure 1);
- If the LED load used with series mode purely, LEDs must be connected in series in same polarity. Extra current-limiting resistance is unnecessary (figure 2).

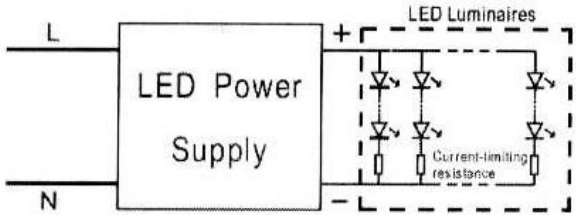
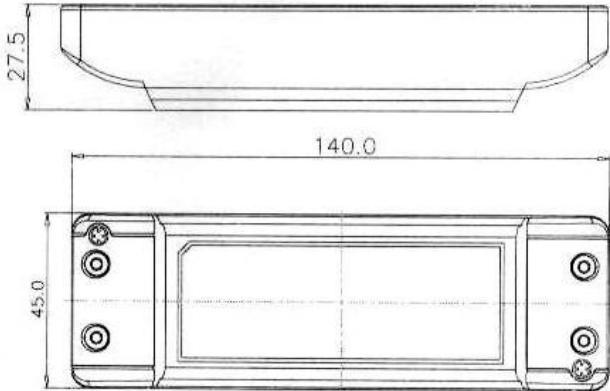


figure 1. series-parallel mode

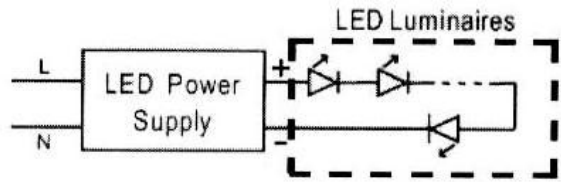
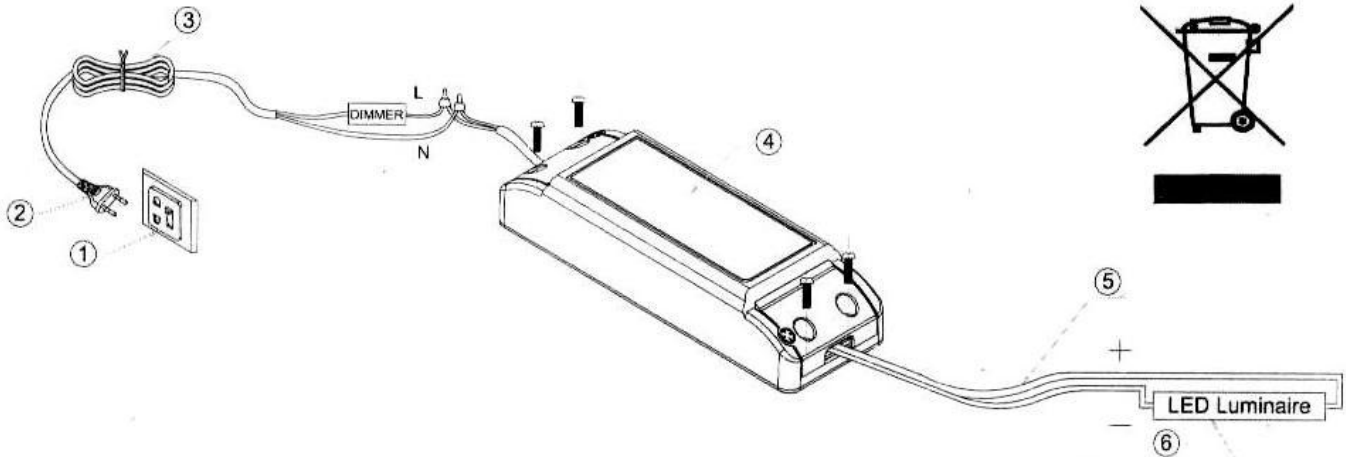


figure 2. series mode

4、 Install schematics



5、 Operational surroundings

- a) Applicable operational ambient temperature: 0~50°C ;
- b) The minimum length of output lead is 0.3m and maximum length must not exceed 2m.

6. Caution

- a) No heavy object or combustible covered on the driver.
- b) You'd better not throw the switch into action on the output port. If you must do it, please do the corresponding treatment on the LED Luminaire.

6	LED Luminaire	
5	Output wire	0.5-1.5 mm ²
4	LED driver	ELP30-50LSD
3	Input wire	H03VVH2-F 0.5-0.75mm ² (recommend)
2	plug	
1	socket	
NO.	NAME	REMARK