

ELN-30 Series

30W IP64 Constant Voltage LED Lighting Power Supplies



Case: 8012CE
145 x 47 x 30mm

Features

- Universal AC input up to 264VAC
- Adjustable output voltage & constant current levels
- IP64 level fully isolated plastic case
- Short circuit, over load, over voltage protections
- Class II power unit, no FG
- Passes LPS
- 100% full load burn-in test
- Cooling by free air convection



Specification

INPUT	Voltage	90V~264VAC or 127V~370VDC.						
	Frequency	47 ----- 63 Hz						
	Current	0.75A/115VAC		0.48A/230VAC				
	Inrush Current	60A@230VACC						
	Leakage Current	0.25mA/ 240VAC input						
OUTPUT	MODEL No.	ELN-30-5	ELN-30-9	ELN-30-12	ELN-30-15	ELN-30-24	ELN-30-27	ELN-30-48
	Voltage	5V	9V	12V	15V	24V	27V	48V
	Voltage Adj. Range	4.5~5.5V	8.7~10.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V	24.3~29.7V	43.2~52.8V
	Constant Current Operation	3~5V	3~9V	3~12V	3~15V	3~24V	3~27V	3~48V
	Rated Current	5A	3.4A	2.5A	2A	1.25A	1.12A	0.63A
	Power	25W	30.6W	30W	30W	30W	30.24W	30.24W
	Ripple & Noise	80mV	100mV	120mV	120mV	150mV	150mV	250mV
PROTECTION	Efficiency (TYP.)	75%	80%	82%	82%	85%	85%	87%
	Over Voltage	5.75~6.75V	11~13.5V	13.8~16V	17.5~21V	28~32V	31~36.4V	54~60V
	Over Current	Shutdown output voltage, re-power on to recover						
ELEC. CHAR.	Current Adj. Range	95~110%; constant current limiting, recovers automatically after fault condition is removed						
	Voltage Tolerance	-25% ~ 3%. Can be adjusted by internal potentiometer SVR2						
	Line Regulation	±5.0%						
	Load Regulation	±1.0%						
	Setup Time	±2.0%						
ENVIRONMENT	Hold Up Time	500ms, 80ms@230VAC 1000, 80ms@115VAC, full load						
	Temperature	50ms@230VAC 16ms@115VAC, full load						
	Humidity	Operating: -20~+60°C ; De-rating: 40~60°C@50% load ; Storage: -40~ +80°C						
	Temp. Coefficient	Operating: 20%~90% RH; Storage: 10%~95% RH (non condensing)						
SAFETY	Vibration	±0.03%/°C (0~50°C)						
	Withstand Voltage	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	Isolation Resistance	I/P-O/P:3KVAC						
EMC	Safety Standard	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH						
	EMI	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91 (except for 48V); design refers to TUV EN60950-1, EN61347-2-13						
OTHERS	Safety Standard	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91 (except for 48V); design refers to TUV EN60950-1, EN61347-2-13						
	EMS	Compliance to EN55022 (CISPR22) Class B,EN61000-3-2 ClassA, EN61000-3-3						
OTHERS	M.T.B.F.	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A						
	Packing	628.3K hrs min. MIL-HDBK-217F (25°C)						
		N.W.:0.26Kg / 1pc; 60pcs / 16.6Kgs; 1.25CUFT / 1 CTN						

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
5. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.
6. The power supply is considered a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation.
7. Length of set up time is measured at first cold start. Turning the power supply ON/OFF may lead to increased set up time.
8. In the European market this power supply can be used for LED lighting applications with input power up to 25W.

ELN-30 Series

30W IP64 Constant Voltage LED Lighting Power Supplies

