ELN-30-D Series

30W IP64 Dimming Function LED Lighting Power Supplies





Features

- Universal AC input up to 264VAC
- 1.1~10VDC dimming function
- · 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



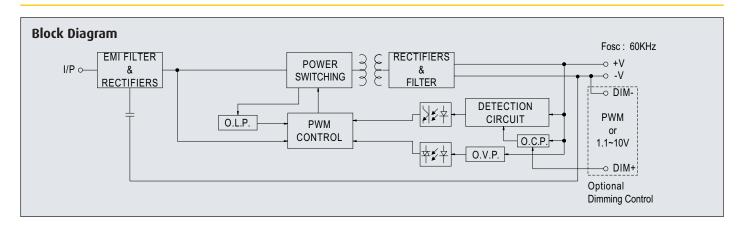
Specificatio	n								
•	Voltage								
INPUT	Frequency	47 63 Hz							
	Current	0.75A/115VAC	0.48A/230VAC						
	Inrush Current	60A@230VACC							
	Leakage Current	0.25mA/ 240VAC input							
OUTPUT	MODEL No.	ELN-30-5D	ELN-30-9D	ELN-30-12D	ELN-30-15D	ELN-30-24D	ELN-30-27D	ELN-30-48D	
	Voltage	5V	9V	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	
	Efficiency (TYP.)	75%	80%	82%	82%	85%	85%	87%	
PROTECTION	Over Voltage	5.75~6.75V	11~13.5V	13.8~16V	17.5~21V	28~32V	31~36.4V	54~60V	
		Shutdown output voltage, re-power on to recover							
	Over Current	95~110%; constant current limiting, recovers automatically after fault condition is removed							
ELEC. CHAR.	Current Adj. Range	-25% ~ 3%. Can be adjusted by internal potentiometer SVR2							
	Voltage Tolerance	±5.0%							
	Line Regulation	±1.0%							
	Load Regulation	±2.0%							
	Setup Time	500ms, 80ms@230VAC							
	Hold Up Time	50ms@230VAC 16ms@115VAC, full load							
ENVIRONMENT	Temperature	Operating: -20~+60°C ; De-rating: 40~60°C@50% load ; Storage: -40~ +80°C							
	Humidity	Operating: 20%~90% RH; Storage: 10%~95% RH (non condensing)							
	Temp. Coefficient	±0.03%/°C (0~50°C)							
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY	Withstand Voltage	I/P-0/P:3KVAC	I/P-O/P:3KVAC						
	Isolation Resistance	I/P-0/P:>100M Ohms / 500VDC / 25°C / 70% RH							
	Safety Standard	UL1310 Class 2,	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91 (except for 48V); design refers to TUV EN60950-1, EN61347-2-13						
EMC	EMI	Compliance to E	Compliance to EN55022 (CISPR22) Class B,EN61000-3-2 ClassA, EN61000-3-3						
	EMS	Compliance to E	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A						
OTHERS	M.T.B.F.	628.3K hrs min.	628.3K hrs min. MIL-HDBK-217F (25℃)						
	Packing	N.W. 0.36K- / 4	pc; 60pcs / 16.6K						

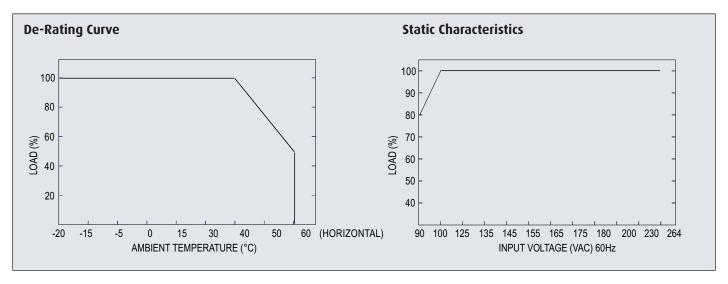
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltage. Please check the static characteristics for more details.
 Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.
 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.
 Length of set up time is measured at first cold start. Turning the power supply ON/OFF may lead to increased set up time.
 In the European market this power supply can be used for LED lighting applications with input power uo to 25W.

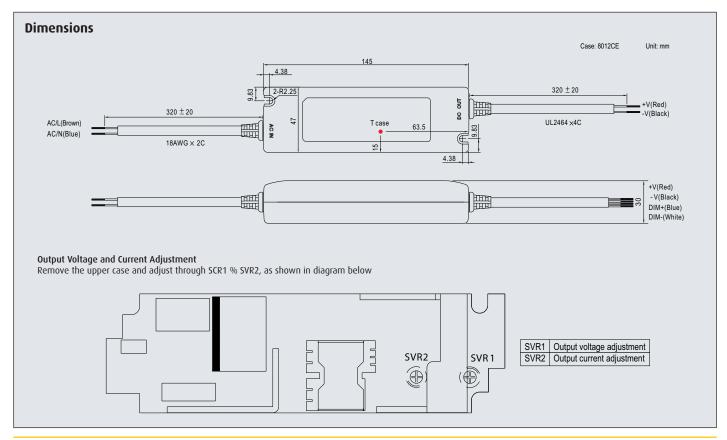
ELN-30-D Series

30W IP64 Dimming Function LED Lighting Power Supplies









ELN-30-D Series





