

### 30W Single Output Switching Power Supply

# ELN-30 series



Features :

- Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- IP64 design for indoor or outdoor installations
- Built-in dimming function : 1~10VDC or PWM controlled(Optional)
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED lighten and moving sign applications
- High realibility
- 2 years warranty

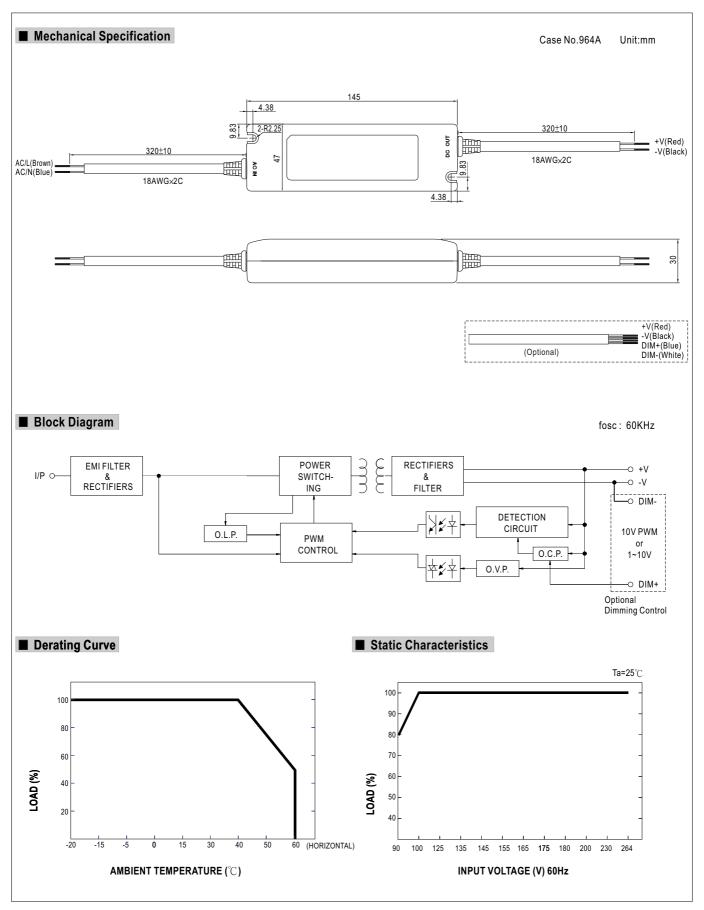
### IP64 CE

#### **SPECIFICATION**

MODEL	ATION	ELN-30-5	ELN-30-9	ELN-30-12	ELN-30-15	ELN-30-24	ELN-30-27	ELN-30-48	
	DC VOLTAGE	5V	9V	12V	15V	24V	27V	48V	
OUTPUT	RATED CURRENT	5A	3.4A	2.5A	2A	1.25A	1.12A	0.63A	
	CURRENT RANGE	0~5A	0~3.4A	0~2.5A	0~2A	0~1.25A	0~1.12A	0~0.63A	
	RATED POWER	25W	30.6W	30W	30W	30W	30.24W	30.24W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	
	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	
	CURRENT ADJ. RANGE	-25% ~ 3%							
	VOLTAGE TOLERANCE Note.3								
	LINE REGULATION	±1.0%							
	LOAD REGULATION	±2.0%							
	SETUP, RISE TIME Note.6	400ms, 50ms / 230VAC 800ms, 50ms / 115VAC at full load							
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load							
INPUT	VOLTAGE RANGE	90 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	75%	80%	81%	82%	85%	84%	87%	
	AC CURRENT	0.75A/115VAC 0.48A/230VAC							
	INRUSH CURRENT(max.)	COLD STAR 60A/230VAC							
	LEAKAGE CURRENT	0.25mA / 240VAC							
PROTECTION	OVER CURRENT Note.4	95 ~ 110% 105 ~ 140%							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	5.75~6.75V	11 ~ 13.5V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V	31~36.4V	54 ~ 60V	
		Protection type : Shut down o/p voltage, re-power on to recover							
UNCTION	DIMMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM							
ENVIRONMENT	WORKING TEMP.	-20 ~ +60 $^\circ \mathrm{C}$ (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	Design refer to UL1310 Class 2, TUV EN60950-1, CAN/CSA C22.2 No. 223-M91(except for 48V), EN61347-2-13; IP64 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC							
SAFETY &	ISOLATION RESISTANCE I/P-O/P:>100M Ohms/500VDC 25°C 70%RH								
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	HARMONIC CURRENT	Compliance to E	N61000-3-2,-3						
	EMS IMMUNITY	Compliance to E	N61000-4-2,3,4,5,6	6,8,11; ENV50204	, EN55024, light in	dustry level, criteri	a A		
OTHERS	MTBF	628.3Khrs min.	MIL-HDBK-217F	<b>(25℃)</b>					
	DIMENSION	145*47*30mm (L	*W*H)						
	PACKING	0.26Kg; 60pcs/16	6.6Kg/1.2CUFT						
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ui</li> <li>The power supply is consid EMC directives.</li> </ol>	arameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ance : includes set up tolerance, line regulation and load regulation. ting may be needed under low input voltage. Please check the derating curve for more details. power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets directives. th of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.							



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