



Features :

- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- · Cooling by free air convection
- · Built-in constant current limiting circuit with adjustable OCP level
- Optional dimming function : 1~10VDC (D type) or PWM (P type) controlled
- · Fully isolated plastic case with IP64 level
- Class Ⅱ power unit, no FG
- · Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.9)
- 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty

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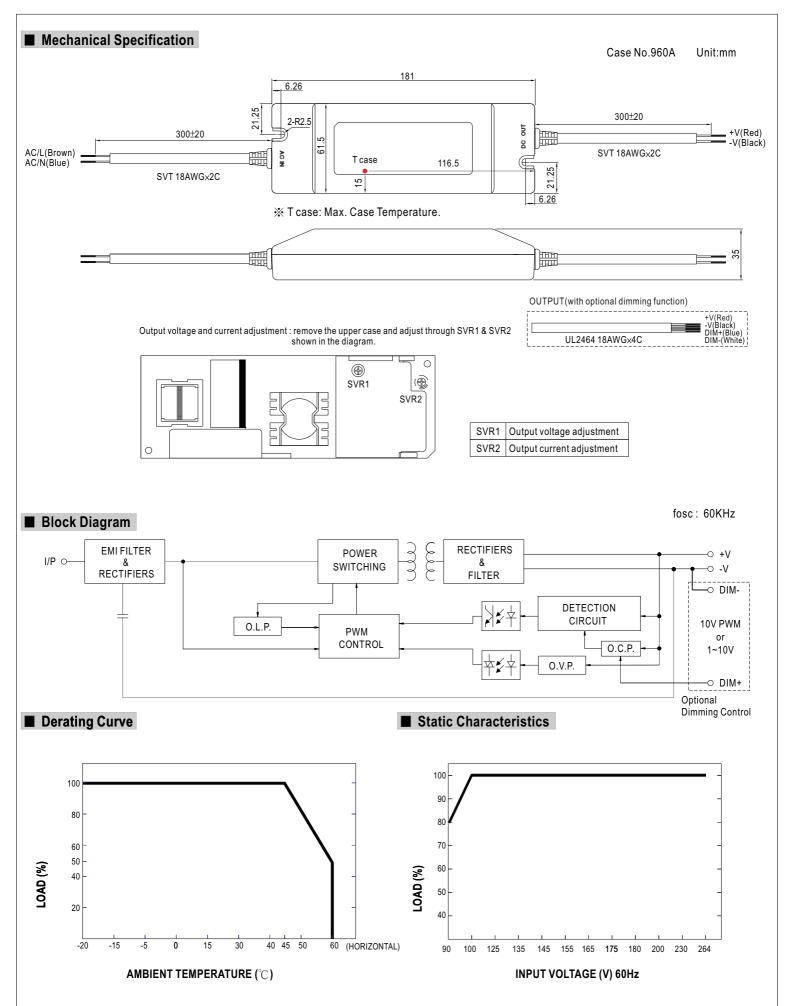
□ LPS IP64 **%** (for 48V only) c **%** US (except for 48V) C €

MODEL		ELN-60-9	ELN-60-12	ELN-60-15	ELN-60-24	ELN-60-27	ELN-60-48			
OUTPUT	DC VOLTAGE	9V	12V	15V	24V	27V	48V			
	LED OPERATION VOLTAGE Note.8	3~9V	6 ~ 12V	7.5 ~ 15V	12 ~ 24V	13.5 ~ 27V	24 ~ 48V			
	RATED CURRENT	5A	5A	4A	2.5A	2.3A	1.3A			
	CURRENT RANGE	0 ~ 5A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.3A			
	RATED POWER	45W	60W	60W	60W	62.1W	62.5W			
	RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p			
	VOLTAGE ADJ. RANGE Note.7	8.7 ~ 10.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	24.3 ~ 29.7V	43.2 ~ 52.8V			
		Can be adjusted by internal potentiometer SVR1								
	CURRENT ADJ. RANGE Note.7	-25% ~ 3%. Can be adjusted by internal potentiometer SVR2								
	VOLTAGE TOLERANCE Note.3	±5.0%								
	LINE REGULATION	±1.0%								
	LOAD REGULATION	±2.0%								
	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load								
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load								
_	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
INDUT	EFFICIENCY (Typ.)	82%	85%	86%	87%	87%	88%			
INPUT	AC CURRENT (Typ.)	1.2A/115VAC 0.7A/230VAC								
	INRUSH CURRENT (max.)	COLD START 60A/230VAC								
	LEAKAGE CURRENT	0.25mA / 240VAC								
	OVED CURRENT	95 ~ 110%								
PROTECTION	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed								
		11 ~ 13.5V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V	31 ~ 35V	54 ~ 60V			
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover								
FUNCTION	DIMMING CONTROL (OPTIONAL)		1 ~ 10VDC or PWM signal : 100Hz ~ 3KHz							
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "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 & EMC	SAFETY STANDARDS	UL1310, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved; design refer to TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC								
	ISOLATION RESISTANCE		ns / 500VDC / 25°C / 70)% RH						
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A								
OTHERS	MTBF		-HDBK-217F (25°C)	,	, ,					
	DIMENSION	181*61.5*35mm (L*	, ,							
	PACKING	0.4Kq; 24pcs/11Kq/0.75CUFT								
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance : includes set up	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. der low input voltage. Please check the static characteristics for more details.								

- 5. The power supply is considered as 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 again.
- 6. Length 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.
- 7. Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
- 8. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.

 9. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.







■ Dimming Control (Optional)

Level of output current can be adjusted through the dimming control function.

When there is no signal sending to the control wires (open circuit between the two control wires), the power supply unit will operate as 0V (D-type) or 0% duty (P-type) of input signal and hence the output current will be zero.

(1)1~10V (D type, &: ELN-60-12D)

