



Features:

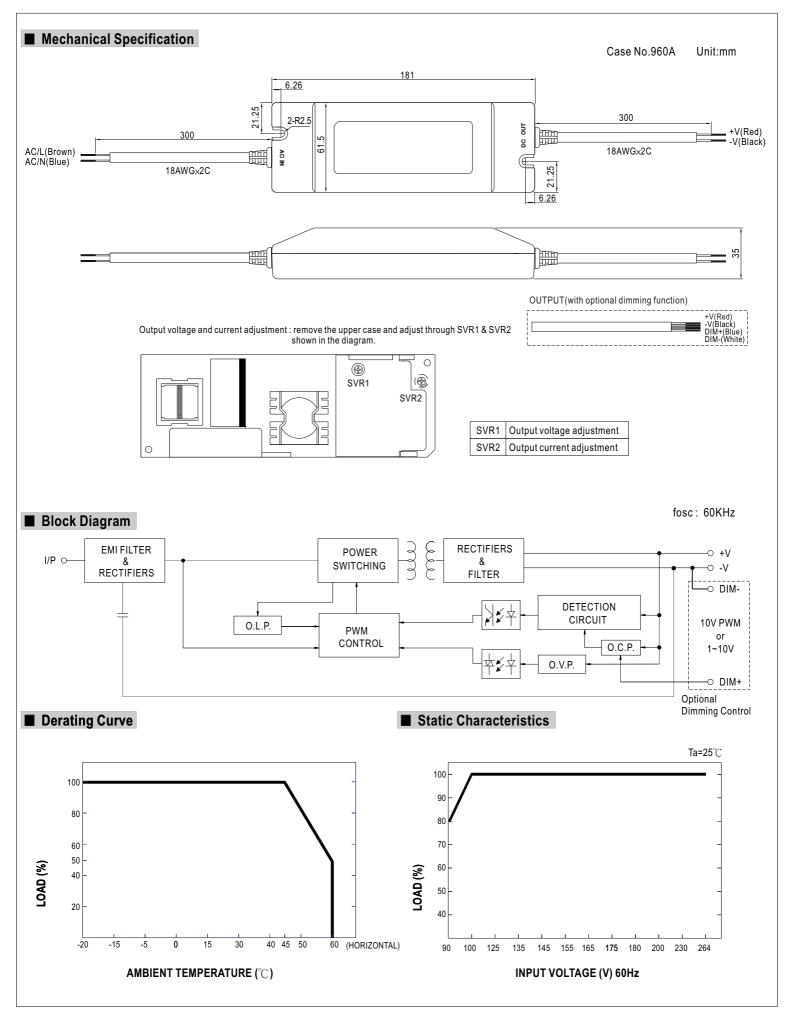
- Universal AC input / Full range
- · Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case with IP64 level
- IP64 design for indoor or outdoor installations
- Optional dimming function : 1~10VDC(D type)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

IP64 **%** (for 48V only) c **%** US (except for 48V) C E

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 potential meter SVR1						
	CURRENT ADJ. RANGE Note.7	7 -25% ~ 3%. Can be adjusted by internal potential meter SVR2						
	VOLTAGE TOLERANCE Note.3							
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±2.0%						
		5 500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load						
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load						
INPUT		90 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	82%	85%	86%	87%	87%	88%	
	AC CURRENT (Typ.)		A/230VAC	0070	0170	0170	0070	
	INRUSH CURRENT(max.)	COLD START 60A/230VAC						
	LEAKAGE CURRENT	0.25mA / 240VAC						
PROTECTION	LEARAGE CORRECT	95 ~ 110% 130% max.						
	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					31 - 33 /	J4 ** 00 V	
ELINCTION	DIMMING CONTROL (ORTIONAL)	Protection type : Shut down o/p voltage, re-power on to recover 1 ~ 10VDC or PWM signal : 100Hz ~ 3KHz						
FUNCTION								
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°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 & EMC	SAFETY STANDARDS	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved, design refer to TUV EN60950-1, EN61347-2-1						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH						
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A						
OTHERS	MTBF	603Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	181*61.5*35mm (L*W*H)						
	PACKING	0.4Kg; 24pcs/11Kg/0.75CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur	Illy 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. nder low input voltage. Please check the derating curve 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.
- 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.







■ 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)

