

ELN-60 series



Features:

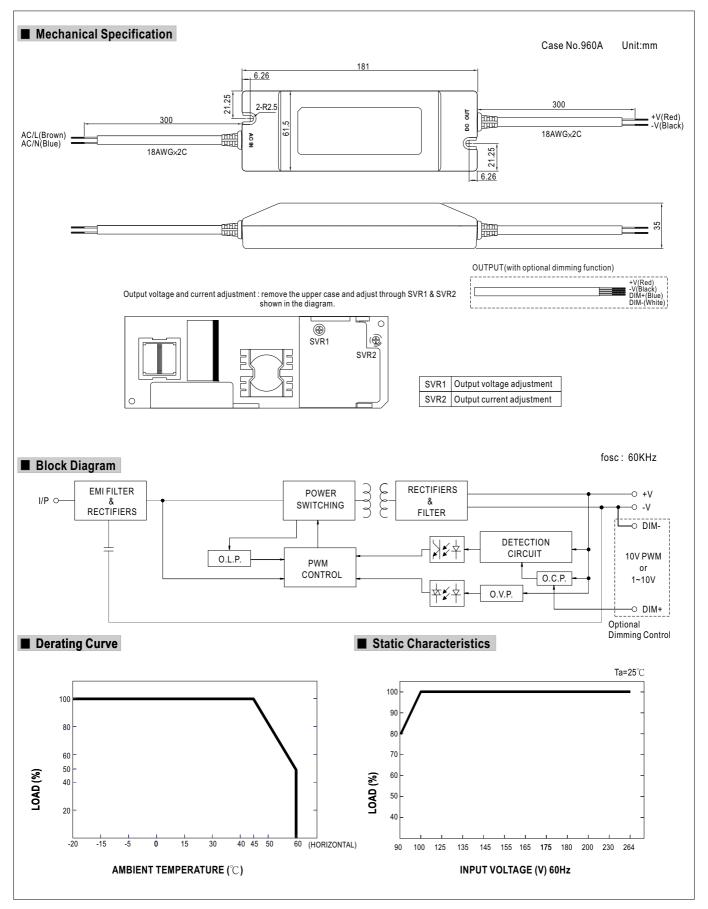
- Universal AC input / Full range
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case with IP64 level
- IP64 design for indoor or outdoor installations
- Optional dimming function : 1~10VDC(D type) 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



MODEL		ELN-60-9	ELN-60-12	ELN-60-15	ELN-60-24	ELN-60-27	ELN-60-48
	DC VOLTAGE	9V	12V	15V	24V	27V	48V
ОИТРИТ	LED OPERATION VOLTAGE Note.8		3 ~ 12V	3 ~ 15V	3 ~ 24V	3 ~ 27V	3 ~ 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	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
					21.0 * 20.4 V	24.5 ~ 29.7 V	43.2 32.0 0
	CUDDENT AD L DANCE Note 7	Can be adjusted by internal potential meter SVR1 -25% ~ 3%. Can be adjusted by internal potential meter SVR2					
		, , ,					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
		500ms, 30ms / 230VAC					
	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.)	1.2A/115VAC 0.7A/230VAC					
	INRUSH CURRENT(max.)	COLD STAR 60A/230VAC					
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	OVER CURRENT	95 ~ 110% 130% max.					
	OVER CORREST	Protection type: Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	11 ~ 13.5V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V	31 ~ 35V	54 ~ 60V
		Protection type : Sh	ut down o/p voltage	e, re-power on to reco	ver		·
FUNCTION	DIMMING CONTROL (OPTIONAL)						
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 STANDARDS	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved, design refer to TUV EN60950-1, EN61347-2-13					
SAFETY &	WITHSTAND VOLTAGE	I/P-0/P:3KVAC					
EMC							
EWC	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					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Derating may be needed ur The power supply is consided EMC directives.	ed at 20MHz of band tolerance, line regul nder low input voltage ered a component v	dwidth by using a 1 lation and load reginge. Please check the which will be installed.	2" twisted pair-wire ulation. the derating curve for a final equipment	terminated with a 0.1 more details. . The final equipmen	luf & 47uf parallel cap	
	6. Length of set up time is med 7. Output voltage can be adjus 8. Constant current operation is	sted through the SV	R1 on the PCB ; li	mit of output constar	nt current level can b	e adjusted through the	



ELN-60 series



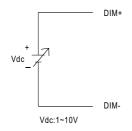


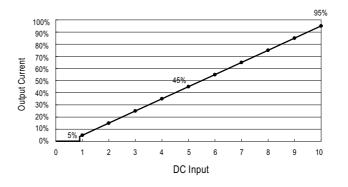
ELN-60 series

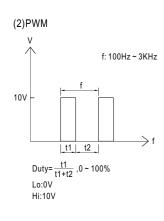
■ Dimming Control (Optional)

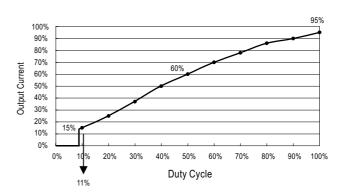
Level of output current can be adjusted through the dimming control function.

(1)1~10V





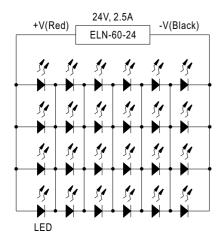






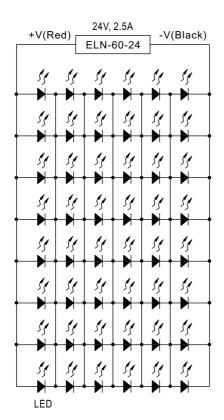
ELN-60 series

■ Recommend Application Deployment (24V)



1 to 6 LEDs // 4 strips

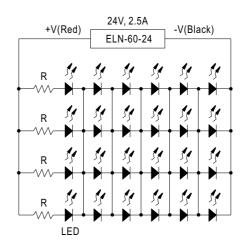
This configuration is based on LED with the following parameters :



1 to 6 LEDs // 8 strips

This configuration is based on LED with the following parameters :

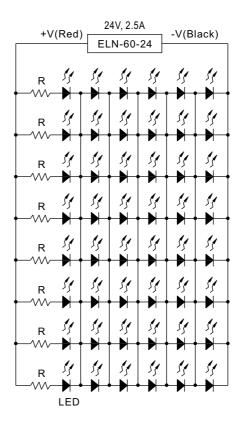
V_F= 3.0~3.5V I_F=300~350mA



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=10 ohm, 10W



6 LEDs // 1 to 8 strips

This configuration is based on LED with the following parameters :

V_F= 3.0~3.5V I_F=300~350mA

R=20 ohm, 3W