

SPECIFICATION



Features:

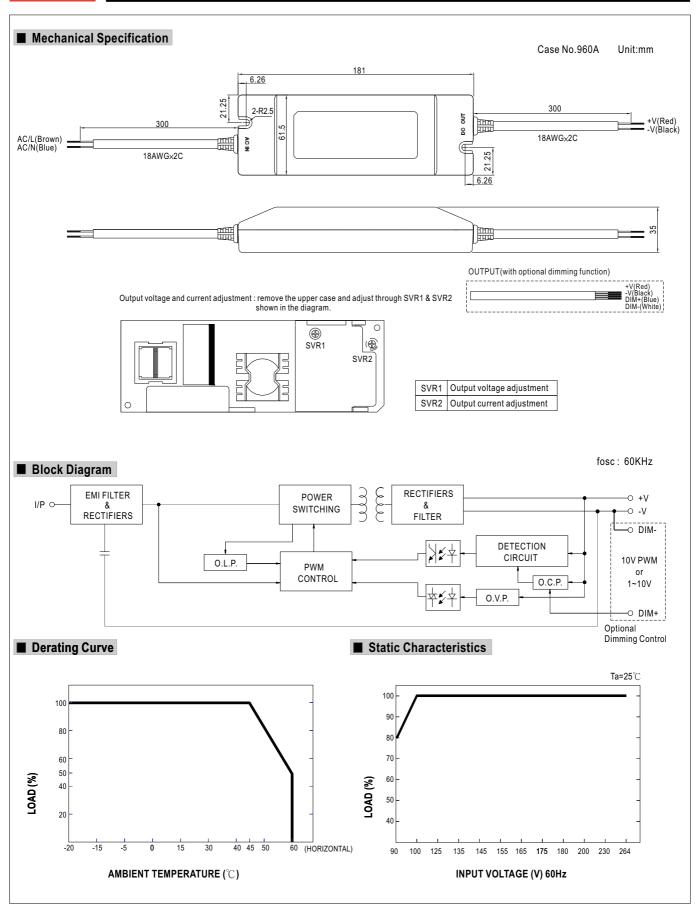
- Universal AC input / Full range
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case with IP64 level
- IP64 design for indoor or outdoor installations
- Optional dimming function : 1~10VDC(D type)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



			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	3~9V	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	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	±5.0%					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
	SETUP, RISE TIME Note.6	6 500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load					
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.5	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.					
		Protection type : 0	constant current limi	ting, recovers automa	atically after fault cond	ition is removed	
	OVER VOLTAGE	11 ~ 13.5V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V	31 ~ 35V	54 ~ 60V
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover					
UNCTION	DIMMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM signal : 100Hz ~ 3KHz					
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					
	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 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℃)					
	DIMENSION	181*61.5*35mm (L*W*H)					
	PACKING	0.4Kg; 24pcs/11Kg/0.75CUFT					
IOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed up The power supply is consided EMC directives.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. under low input voltage. Please check the derating curve for more details. dered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets easured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.					

Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.



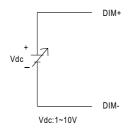


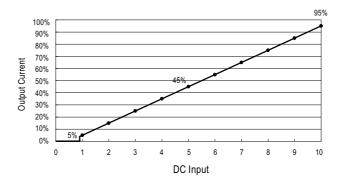


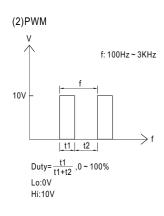
■ Dimming Control (Optional)

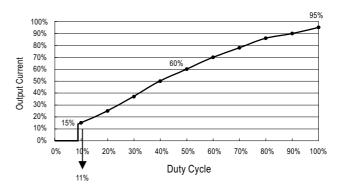
Level of output current can be adjusted through the dimming control function.

(1)1~10V



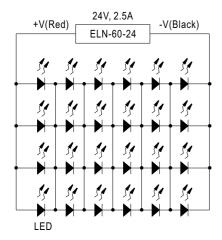






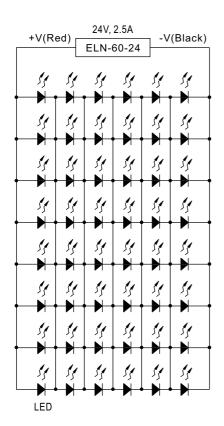


■ Recommend Application Deployment (24V)



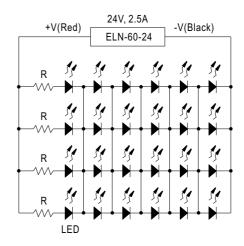
1 to 6 LEDs // 4 strips

This configuration is based on LED with the following parameters : $V_{F} = 3.0 \text{--} 3.5 V \hspace{1cm} I_{F} = 600 \text{--} 700 \text{mA}$



1 to 6 LEDs // 8 strips

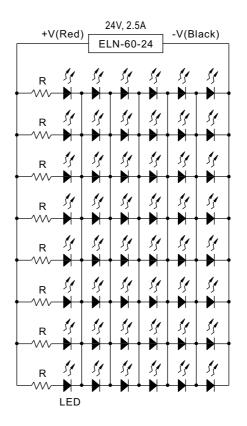
This configuration is based on LED with the following parameters :



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=10 ohm, 10W



 $6\,\text{LEDs}\,\textsc{//}\,1$ to $8\,\text{strips}$

This configuration is based on LED with the following parameters :

R=20 ohm, 3W