



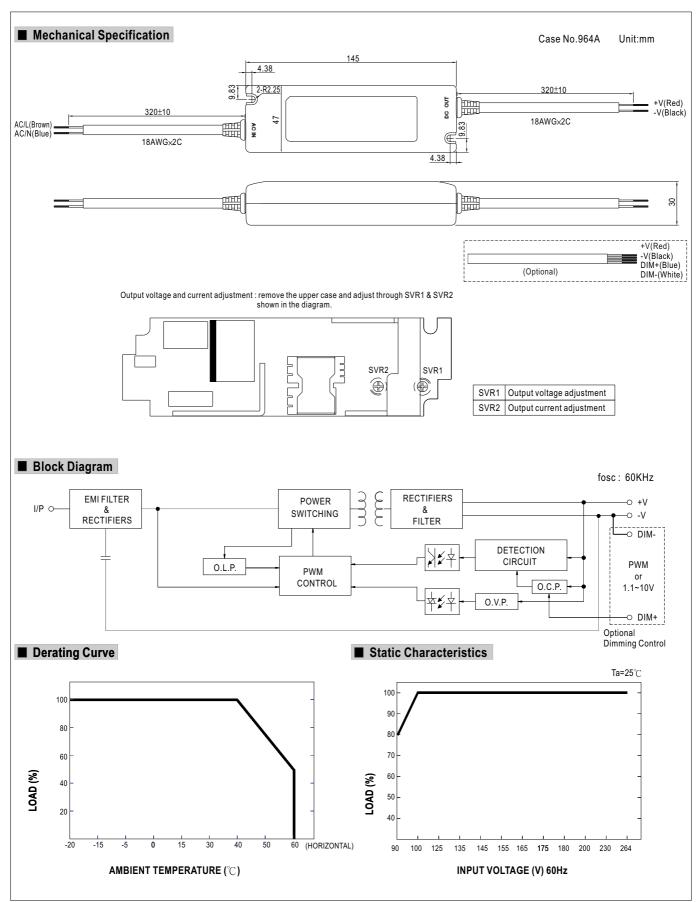
## Features:

- 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
- Optional dimming function: 1.1~10VDC (D type) or PWM (P type) controlled
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- Low cost
- 2 years warranty

IP64 CE **SPECIFICATION** 

MODEL		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	LED OPERATION VOLTAGE Note.7	3~5V	3 ~ 9V	3 ~ 12V	3 ~ 15V	3 ~ 24V	3 ~ 27V	3 ~ 48V
	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
	THIT LE GIVOIOL (MAX.) Note.2	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
	VOLTAGE ADJ. RANGE				10.0 10.0 V	21.0 20.41	24.0 25.1 V	40.2 32.0V
	CURRENT ADJ. RANGE	Can be adjusted by internal potential meter SVR1  -25% ~ 3%. Can be adjusted by internal potential meter SVR2						
	VOLTAGE TOLERANCE Note.3							
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±2.0%						
		500ms, 80ms / 230VAC 1000ms, 80ms / 115VAC at full load						
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 63Hz	Land	1 000/	1000	1.000	1050/	1070/
	EFFICIENCY (Typ.)	75%	80%	82%	82%	85%	85%	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%						
		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 volta	age, re-power on t	o recover			
FUNCTION	DIMMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM						
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	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						
	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	628.3Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	145*47*30mm (L*W*H)						
	PACKING	0.26Kg; 60pcs/16	•					
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance : includes set up     Derating may be needed ur     The power supply is consid     EMC directives.     Length of set up time is me	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.  lered 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.  region is within the specified output voltage range above. This is the suitable operation region for LED related applications.						
	<u> </u>						File News FI	.N-30-SPEC 2008-

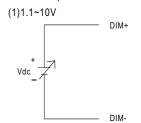






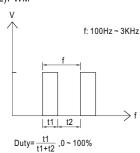
## ■ Dimming Control (Optional)

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

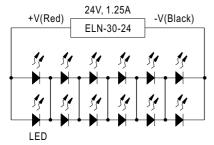


Vdc:1.1~10V



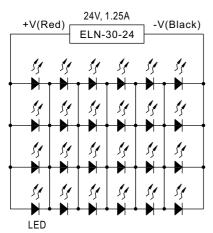


## ■ Recommend Application Deployment (24V)



1 to 6 LEDs // 2 strips

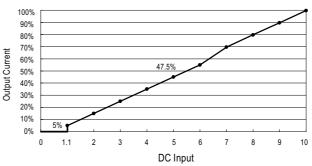
This configuration is based on LED with the following parameters :  $V_F = 3.0 \sim 3.5 V$   $I_F = 600 \sim 700 mA$ 

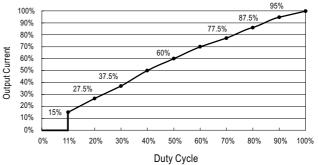


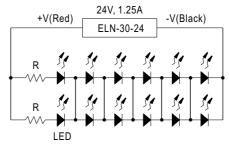
1 to 6 LEDs // 4 strips

This configuration is based on LED with the following parameters :

V<sub>F</sub>= 3.0~3.5V I<sub>F</sub>=300~350mA



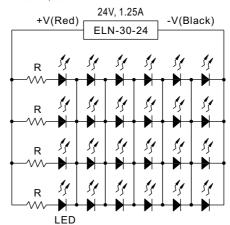




6 LEDs // 1 to 2 strips

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

R=10 ohm, 10W



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=20 ohm, 3W