



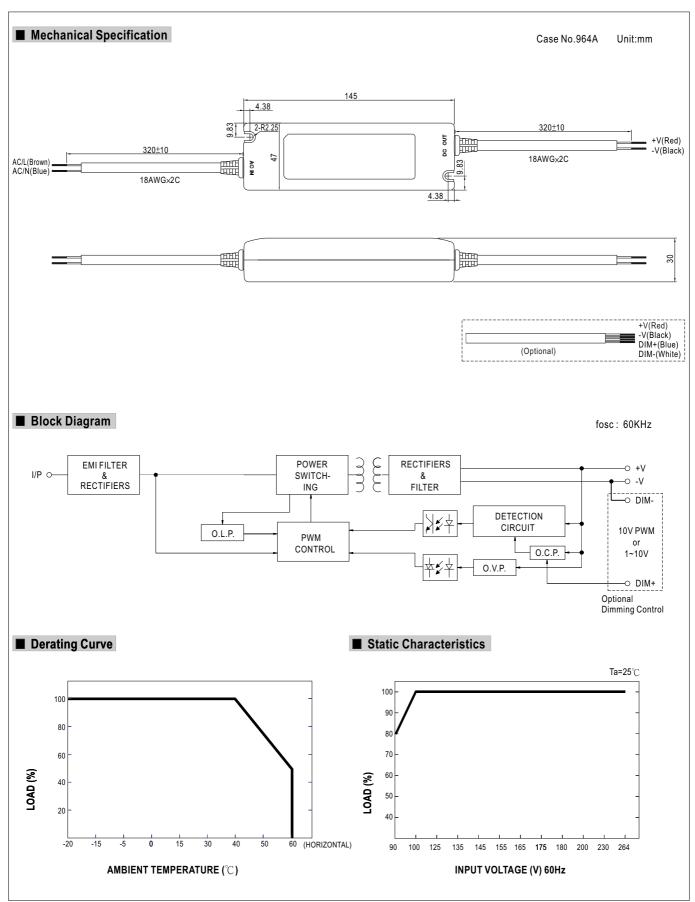
## Features:

- 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
- IP64 design for indoor or outdoor installations
- Built-in dimming function : 1~10VDC or PWM controlled(Optional)
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED lighten and moving sign applications
- · High realibility
- 2 years warranty

IP64 CE

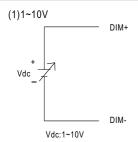
SPECIFIC	ATION	• 2 years warranty						IP64 CE
MODEL	-	ELN-30-5	ELN-30-9	ELN-30-12	ELN-30-15	ELN-30-24	ELN-30-27	ELN-30-48
ОИТРИТ	DC VOLTAGE	5V	9V	12V	15V	24V	27V	48V
	RATED CURRENT	5A	3.4A	2.5A	2A	1.25A	1.12A	0.63A
	CURRENT RANGE	0 ~ 5A	0 ~ 3.4A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.25A	0 ~ 1.12A	0 ~ 0.63A
	RATED POWER	25W	30.6W	30W	30W	30W	30.24W	30.24W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	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
	CURRENT ADJ. RANGE	-25% ~ 3%						
	VOLTAGE TOLERANCE Note.3	±5.0%						
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±2.0%						
	SETUP, RISE TIME Note.6	400ms, 50ms / 230VAC 800ms, 50ms / 115VAC at full load						
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	75%	80%	81%	82%	85%	84%	87%
	AC CURRENT	0.75A/115VAC	0.48A/230VAC					
	INRUSH CURRENT(max.)	COLD STAR 60A/230VAC						
	LEAKAGE CURRENT	0.25mA / 240VAC						
		95 ~ 110%						
PROTECTION	OVER CURRENT Note.4	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
						120 021	0. 00	10. 00.
FUNCTION	DIMMING CONTROL (OPTIONAL)	Protection type: Shut down o/p voltage, re-power on to recover  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 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						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms/500VDC 25°C 70%RH						
EMC	EMI CONDUCTION & RADIATION	-						
	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		( )				
	PACKING	0.26Kg; 60pcs/10						
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltage. Please check the derating curve for more details.</li> <li>The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> <li>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.</li> </ol>							

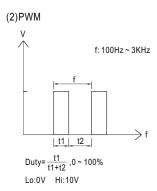




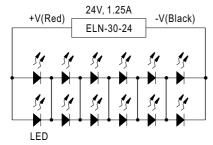


## ■ Dimming Control (For Reference)



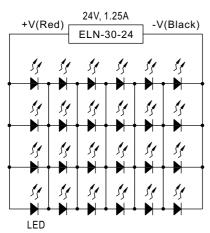


## ■ Recommend Application Schematics (24V)



1 to 6 LEDs // 2 strips

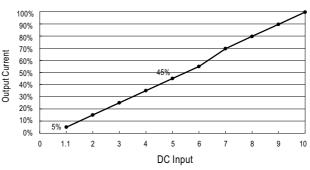
This configuration is based on LED with the following parameters :  $V_F = 3.0 \sim 3.5 V$   $I_F = 600 \sim 700 mA$ 

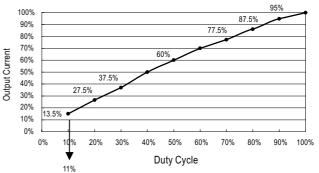


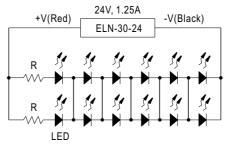
1 to 6 LEDs // 4 strips

This configuration is based on LED with the following parameters :

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



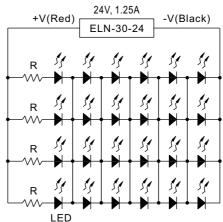




6 LEDs // 1 to 2 strips

This configuration is based on LED with the following parameters :

R=10 ohm, 10W



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=20 ohm, 3W