



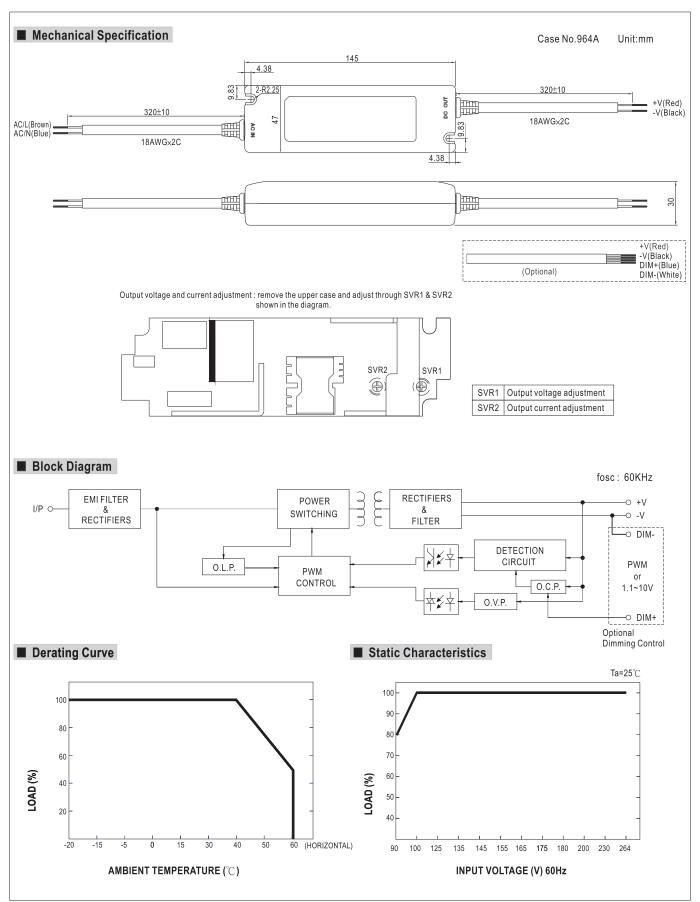
Features:

- 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

SPECIFICATION		•	·	IP64 (ϵ

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		
	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 LL GIVETOL (MAXI) NOTELL	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		
OUTPUT	VOLTAGE ADJ. RANGE				10.0 10.01	21.0 20.11	21.0 20.7 4	10.2 02.01		
	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%								
		5 500ms, 80ms / 230VAC 1000ms, 80ms / 115VAC at full load								
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load								
	VOLTAGE RANGE	90 ~ 264VAC								
	FREQUENCY RANGE	47 ~ 63Hz	1000/	1000/	1000/	050/	1050/	070/		
INPUT	EFFICIENCY (Typ.)	75%	80%	82%	82%	85%	85%	87%		
	AC CURRENT	0.75A/115VAC								
	INRUSH CURRENT(max.)	COLD STAR 60A/230VAC								
	LEAKAGE CURRENT	0.25mA / 240VAC								
	OVER CURRENT Note.4	95 ~ 110%								
PROTECTION		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 volt	age, re-power on t	o recover					
FUNCTION	DIMMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM								
	WORKING TEMP.	-20 ~ +60 °C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	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-0/P:3KVAC								
SAFETY &	ISOLATION RESISTANCE									
EMC		I/P-0/P:>100M Ohms/500VDC 25℃ 70%RH								
LIVIO	EMI CONDUCTION & RADIATION HARMONIC CURRENT	Compliance to EN55022 (CISPR22) Class B								
		Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A								
	EMS IMMUNITY	· ·			ENDOUZ4, light inc	austry level, criteria	A A			
OTHERS	MTBF	628.3Khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	145*47*30mm (L*W*H)								
	PACKING	0.26Kg; 60pcs/16		//	1 10=0=	11				
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 Constant current operation	ed at 20MHz of bat tolerance, line reduced low input volumered a componer asured at first column.	andwidth by using gulation and load r tage. Please chect at which will be ins d start. Turning OI	a 12" twisted pair regulation. k the derating cun talled a final equip	wire terminated wave for more details ment. The final easupply may lead t	vith a 0.1uf & 47uf c. quipment must be o increase of the s	parallel capacitor. re-confirmed that set up time.	it still meets		
			,	J J		,		N-30-SPEC 2008-		

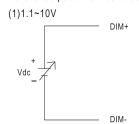






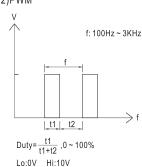
■ Dimming Control (Optional)

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

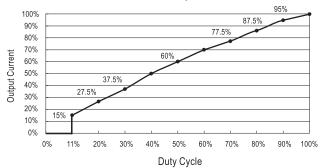


Vdc:1.1~10V

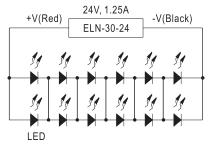
(2)PWM



100% 90% 80% 70% 60% 47.5% 47.5% 47.5% 0 1.1 2 3 4 5 6 7 8 9 10 DC Input

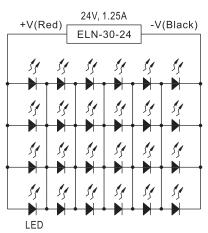


■ Recommend Application Deployment (24V)



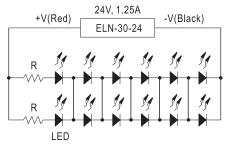
1 to 6 LEDs // 2 strips

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 :

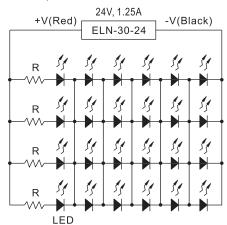


6 LEDs // 1 to 2 strips

This configuration is based on LED with the following parameters :

V_F= 3.0~3.5V I_F=600~700mA

R=10 ohm, 10W



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=20 ohm, 3W