



Features:

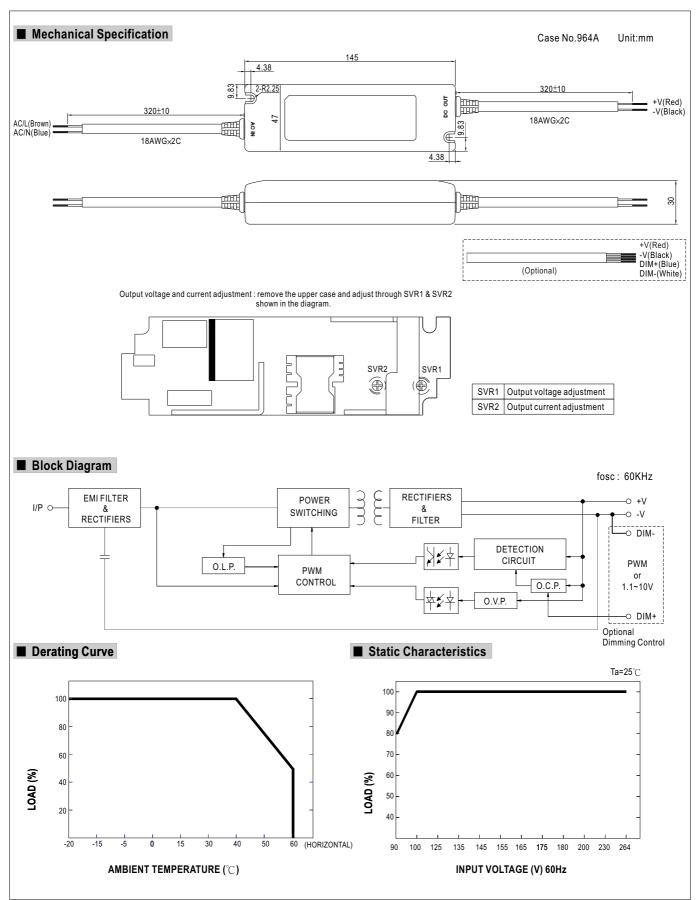
- Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- Optional dimming function: 1.1~10VDC (D type) or PWM (P type) controlled
- UL1310 Class 2 power 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 **¾** (for 48V only) c **¾** US (except for 48V) **€**

		-				- 1.11.4		
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
	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	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
			by internal potentia		1000	1=	1	10.0
	CURRENT ADJ. RANGE	-25% ~ 3%. Can be adjusted by internal potential meter SVR2						
	VOLTAGE TOLERANCE Note.3	, , , ,						
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±2.0%						
	<u> </u>	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						
	EFFICIENCY (Typ.)	75%	80%	82%	82%	85%	85%	87%
	AC CURRENT	0.75A/115VAC	0.48A/230VAC					
	INRUSH CURRENT(max.)	COLD START 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
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ELINCTION	DIMMING CONTROL (OPTIONAL)	Protection type: Shut down o/p voltage, re-power on to recover 1 ~ 10VDC or PWM						
	,							
	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%/℃ (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC	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						
	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 EN61000-3-2,-3 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		(40)				
NOTE	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.						
	7. Ouristant current operation	region is within th	e specilied output	vollage range abo	ve. 11115 IS UTE SU	itable operation re		LN-30-SPEC 2009





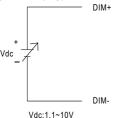


■ Dimming Control (Optional)

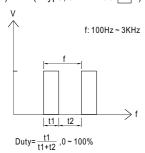
Level of output current can be adjusted through the dimming control function.

When there is no signal sending to the control wires (open circuit between the two control wires), the power supply unit will operate as 0V (D-type) or 0% duty (P-type) of input signal and hence the output current will be zero.

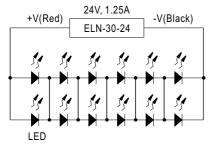




(2)PWM (P type, &: ELN-30-12P)

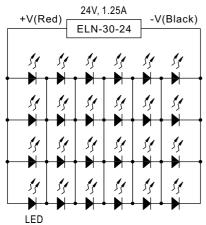


■ Recommend Application Deployment (24V)



1 to 6 LEDs // 2 strips

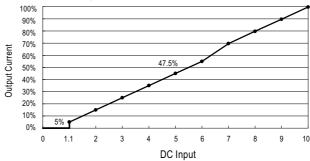
This configuration is based on LED with the following parameters : $V_F = 3.0 \sim 3.5 V$ $I_F = 600 \sim 700 mA$

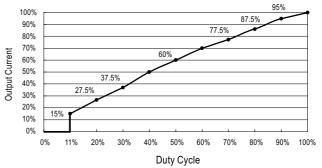


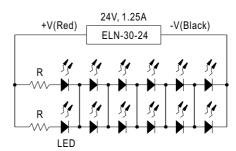
1 to 6 LEDs // 4 strips

This configuration is based on LED with the following parameters :

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



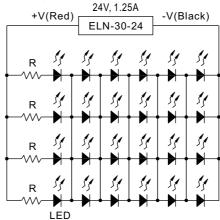




6 LEDs // 1 to 2 strips

This configuration is based on LED with the following parameters : $V_F = 3.0 \sim 3.5 V$ $V_F = 0.0 \sim 7.0 V$

R=10 ohm, 10W



6 LEDs // 1 to 4 strips

This configuration is based on LED with the following parameters :

R=20 ohm, 3W