



IP67 FC (for L type only)

IS 15085 (Part 2 Sec 13)
R-41027766

c UL us EAC CE

■ Features

- Constant voltage design
- 180~305VAC input
- Fully encapsulated with IP67 level (Note.8)
- Class II power unit, no FG
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Fully isolated plastic case
- Fanless design, cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Listed in UL Sign Component Manual (SAM)

■ Applications

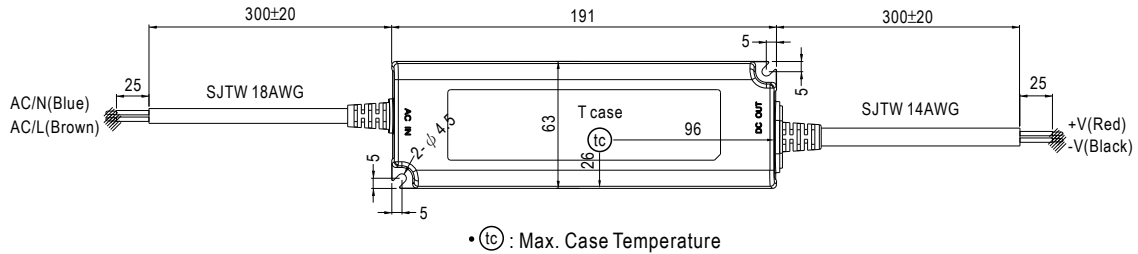
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)

SPECIFICATION

MODEL		AE24150ND	
OUTPUT	DC VOLTAGE	24V	
	RATED CURRENT	6.3A	
	CURRENT RANGE	0 ~ 6.3A	
	RATED POWER	151.2W	
	RIPPLE & NOISE (max.) Note.2	200mVp-p	
	VOLTAGE TOLERANCE Note.3	±5.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
	SETUP, RISE TIME Note.6	500ms, 50ms / 230VAC 500ms, 50ms / 277VAC	
	HOLD UP TIME (Typ.)	18ms/230VAC 20ms/277VAC at full load	
INPUT	VOLTAGE RANGE Note.4	180 ~ 305VAC 254 ~ 431VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	89%	
	AC CURRENT	1.7A/230VAC 1.5A/277VAC	
	INRUSH CURRENT (Typ.)	Blank type	COLD START 60A(twidth=900µs measured at 50% Ipeak) at 230VAC
		L type	COLD START 75A(twidth=900µs measured at 50% Ipeak) at 115VAC
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	Blank type	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC
L type		1 units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 115VAC	
LEAKAGE CURRENT	0.25mA / 240VAC		
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	27 ~ 35V Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-25 ~ +65°C (Refer to "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	Blank type	UL8750, CSA C22.2 No 250.13-12, UL879, CSA C22.2 No.207-M89, BIS IS15885, EAC TP TC 004, IP67 approved. Design refer to EN60950-1
		L type	UL8750(type"HL"), CSA C22.2 No 250.13-12, UL879, CSA C22.2 No.207-M89, IP67 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH	
	EMC EMISSION	Blank type	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2 Class A(≤80% load), EN61000-3-3, EAC TP TC 020
		L type	Compliance to FCC part 15
EMC IMMUNITY	Blank type	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A, EAC TP TC 020	
	L type	Design refer to IEC61000-4-2,3,4,5,6,8,11; light industry level, criteria A	
OTHERS	MTBF	703Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	191*63*37.5mm (L*W*H)	
	PACKING	0.74Kg	
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static characteristics for more details. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit. Suitable for indoor use or outdoor use without direct sunlight exposure. The ambient temperature derating of 3.5% /1000m with fanless models and of 5% /1000m with fan models for operating altitude higher than 2000m(6500ft). 		

■ Mechanical Specification

Case No. LPC-150 Unit:mm

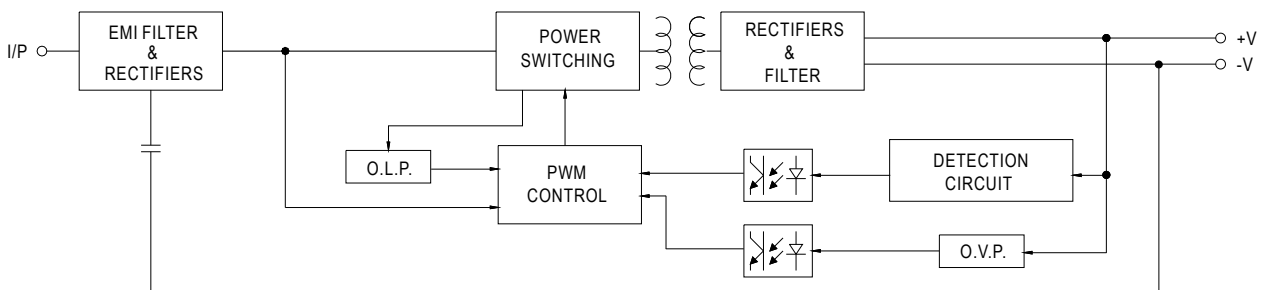


■ Recommend Mounting Direction

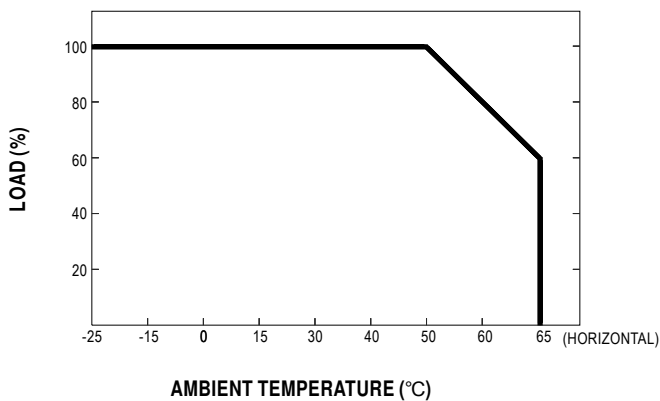


■ Block Diagram

PWM fosc : 47KHz



■ Derating Curve



■ Static Characteristics

