

APV-8E series





Features

- · Constant voltage design
- Class II power unit, no FG
- · Fully isolated plastic case
- IP42 design
- Small and compact size
- · Cooling by free air convection
- · Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.5W
- 100% full load burn-in test
- Low cost, high reliability
- · 2 years warranty

□ SELV IP42 [f][C € 분K

Applications

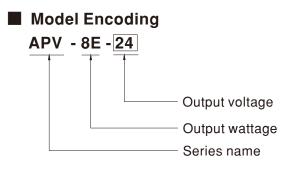
 Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.8)

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

APV-8E series is one 8W AC/DC constant voltage mode single output LED power supply. It accepts input 180~264VAC and provides three models with different output voltage, 5V, 12V, 24V, respectively, that the small wattage LED applications employ the most frequently. Exploiting Class II design (without FG pin) and adopting the 94V-0 flame retardant plastic enclosure, APV-8E ideally fits the entry-level LED applications.





SPECIFICATION

MODEL		APV-8E-5	APV-8E-12	APV-8E-24	
OUTPUT	DC VOLTAGE	5V	12V	24V	
	RATED CURRENT	1.4A	0.67A	0.34A	
	CURRENT RANGE	0~1.4A	0~0.67A	0~0.34A	
	RATED POWER	7W	8.04W	8.16W	
	RIPPLE & NOISE (max.) Note.2	250mVp-p	250mVp-p	300mVp-p	
	VOLTAGE TOLERANCE Note.3				
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME	500ms, 30ms / 230VAC			
	HOLD UP TIME (Typ.)	20ms/230VAC at full load			
	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC (Note.6)			
INPUT	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.5/230VAC at full load			
	EFFICIENCY (Typ.)	74%	77.5%	78.5%	
	AC CURRENT	0.15A/230VAC	11.070		
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120µs measured at 50% lpeak) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed			
PROTECTION		Above 105% rated output power			
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	27.6 ~ 32.4V	
		Protection type : Shut off o/p voltage,			
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
ENVIRONMENT		20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY				
	TEMP. COEFFICIENT	±0.03%/°C (0~45°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	SAFETY STANDARDS	EAC TP TC 004,BS EN/EN62368-1 approved; design refer to UL8750,CSA C22.2 No.250.0-08;			
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC			
	ISOLATION RESISTANCE				
	EMC EMISSION	Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3, EAC TP TC 020			
		· · ·		ustry level(surge 2KV), EAC TP TC 020	
	MTBF	9174.1K hrs min. Telcordia SR-33		/IL-HDBK-217F (25℃)	
OTHERS	DIMENSION	60*30*23.5(L*W*H)			
	PACKING	0.05Kg; 144pcs/7.6Kg/0.79CUFT			
NOTE		parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
NOTE	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 				
		ng may be needed under low input voltage. Please check the static characteristics for more details. ower supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be ad by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.			
	6. When applying DC voltage for input, please connect the brown input wire to the positive side whereas blue input wire to the negative side.7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500)				
	 8. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recomm 9. For any application note and IP water proof function installation caution, please refer our user manual before using. 				
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