





■ Features

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

SELV IP42 HICE

Applications

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

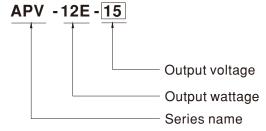
GTIN CODE

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

Description

APV-12E series is one 12W AC/DC constant voltage mode single output LED power supply. It accepts input 180~264VAC and provides four models with different output voltage, 5V, 12V, 15V,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-12E ideally fits the entry-level LED applications.

■ Model Encoding



12W Single Output Switching Power Supply

APV-12E series

SPECIFICATION

MODEL		APV-12E-5	APV-12E-12	APV-12E-15	APV-12E-24	
	DC VOLTAGE	5V	12V	15V	24V	
OUTPUT	RATED CURRENT	2A	1A	0.8A	0.5A	
	CURRENT RANGE	0 ~ 2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.5A	
	RATED POWER	10W	12W	12W	12W	
	RIPPLE & NOISE (max.) Note.2	-				
	VOLTAGE TOLERANCE Note.3					
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±2.0%				
		500ms, 30ms / 230VAC at full load				
	HOLD UP TIME (Typ.)	20ms/230VAC at full load				
	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC				
INPUT	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.5/230VAC at full load				
	EFFICIENCY (Typ.)	75%	81%	81%	83%	
	AC CURRENT	0.2A/230VAC				
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120µs measured at 50% Ipeak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	0.25mA / 240VAC				
PROTECTION		Above 105% rated output power				
	OVER LOAD	Protection type : Hiccup mo	ically after fault condition	is removed		
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	27.6 ~ 32.4V	
		Protection type : Shut off or			2.13 52.17	
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
ENVIRONMENT	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	EAC TP TC 004, IP42, BS EN/EN 62368-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3, EAC TP TC 020 Compliance to BS EN/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), EAC TP TC 020				
	EMC IMMUNITY	·	·		, , , , , , , , , , , , , , , , , , , ,	
OTHERS	MTBF		dia SR-332 (Bellcore)	; 1058.6K hrs min.	MIL-HDBK-217F (25°C)	
	DIMENSION	77*40*29(L*W*H)				
	PACKING	0.08Kg; 120pcs/11.8Kg/1.06CUFT				
NOTE	1	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.				
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation.					
		nder low input voltage. Please check the static characteristics for more details.				
		sidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the				
	· ·	ne final equipment manufacturers must re-qualify EMC Directive on the complete installation again.				
		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.				
	·	temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).				
	 This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 					
	· ·	r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				



