





■ 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 [HI CELK

Applications

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

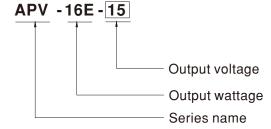
■ GTIN CODE

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

Description

APV-16E series is one 16W 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-16E ideally fits the entry-level LED applications.

■ Model Encoding



16W Single Output Switching Power Supply

APV-16E series

SPECIFICATION

MODEL		APV-16E-5	APV-16E-12	APV-16E-15	APV-16E-24
	DC VOLTAGE	5V	12V	15V	24V
ОИТРИТ	RATED CURRENT	2.6A	1.25A	1A	0.67A
	CURRENT RANGE	0 ~ 2.6A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.67A
	RATED POWER	13W	15W	15W	16.08W
	RIPPLE & NOISE (max.)Note.2	100mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3				
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME Note.6	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%	79%	80%	82%
	AC CURRENT	0.3A/230VAC		1 30 70	5270
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=185µs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A	OCE OTALL SOMEWALL TOOKS INCASALES ALSO IN INCASALES ALSO VICO			
	CIRCUIT BREAKER	13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION	OVER LOAD Above 105% rated output power				
	OVERLEGAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	27.6 ~ 32.4V
	OVER VOLIAGE	Protection type : Shut off o/p voltage, clamping by zener diode			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°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 &	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			
	EMC IMMUNITY	Compliance to BS EN/EN55	035,BS EN/EN61000-4-2,	3,4,5,6,8,11; light industry leve	el(surge 2KV), EAC TP TC 020
OTHERS	MTBF		dia SR-332 (Bellcore);	1055.5K hrs min. MIL-HDB	K-217F (25°C)
	DIMENSION	77*40*29mm (L*W*H)			
	PACKING	0.1Kg; 120pcs/14Kg/1.06CUFT			
NOTE	·	rially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
		neasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation.			
	•	nder low input voltage. Please check the static characteristics for more details.			
		ered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the			
	•	final equipment manufacturers must re-qualify EMC Directive on the complete installation again.			
		set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.			
	 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(6500ft). 8. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) 9. 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				
	Product Liability Disclaimer	: For detailed information, please	ase refer to https://www.meanwell.com/serviceDisclaimer.aspx		



