





■ 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

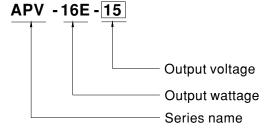
Applications

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

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
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V
	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	±5.0%			
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC at full load			
	HOLD UP TIME (Typ.)				
INPUT	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC			
	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			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=185µs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
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	17.5 ~ 21V	27.6 ~ 32.4V
		Protection type : Shut off o/	p voltage, clamping by zen	er diode	-
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 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 STANDARDS	ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
SAFETY &	ISOLATION RESISTANCE	STANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH			
EMC	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 020			
OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25°ℂ)			
	DIMENSION	77*40*29mm (L*W*H)			
	PACKING	0.1Kg; 120pcs/14Kg/1.06C	UFT		
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consid complete installation, the fin	All ly 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. to tolerance, line regulation and load regulation. nder low input voltage. Please check the static characteristics for more details. dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. easured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.			



