

APC-16E series





Features

- · Constant current design
- Protections:Short circuit / Over voltage
- · Fully isolated plastic case
- · Small and compact size
- Cooling by free air convection
- 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

Description

APC-16E series is one 16W AC/DC constant current mode single output LED power supply. It accepts input 180~264VAC and provides two models with different output current, 350mA and 700mA, 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, APC-16E ideally fits the entry-level LED applications.



Applications

 Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.7)

GTIN CODE

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



SPECIFICATION

MODEL		APC-16E-350	APC-16E-700	
MODEL	RATED CURRENT	350mA	700mA	
OUTPUT	DC VOLTAGE RANGE	12~48V	9~24V	
	RATED POWER RIPPLE & NOISE (max.)Note.2	16.8W	16.8W	
			250mVp-p	
	VOLTAGE TOLERANCE Note.3 CURRENT ACCURACY	±8.0%		
	LINE REGULATION	±0.0%		
	LOAD REGULATION	±1.0% ±3.0%		
-		±3.0% 500ms, 200ms / 230VAC at full load		
-	SETUP, RISE TIME	20ms/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	000	
	EFFICIENCY(Typ.)	83%	82%	
	AC CURRENT	0.3A/230VAC		
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=210µs measured at 50% Ipeak) at 230VAC		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	13 units (circuit breaker of type B) / 23 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	0.25mA / 240VAC		
PROTECTION		50.4~ 60V	27.6~ 33.5V	
	OVER VOLTAGE	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	±0.2%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
	SAFETY STANDARDS	IP42,BS EN/EN 62368-1 approved		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH		
(Note 5)	EMC EMISSION	Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3		
	EMC IMMUNITY	Compliance to BS EN/EN55024,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV)		
OTHERS	MTBF	6106.2K hrs min. Telcordia SR-332 (Bellcore); 1014.0K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	77*40*29(L*W*H)		
	PACKING	0.1Kg; 120pcs/14Kg/1.06CUFT		
NOTE	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.		°C of ambient temperature.	
			nated with a 0.1uf & 47uf parallel capacitor.	
		tolerance, line regulation and load regulation. nder low input voltage. Please check the static characteristic for more details.		
		dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the		
	complete installation, the fina	n, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. erature 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 % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			
			.com/serviceDisclaimer.aspx	



APC-16E series

