





■ 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

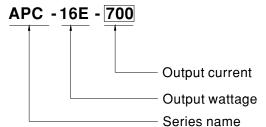
Applications

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

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.

Model Encoding



SPECIFICATION

			APC-16E-700	
-	RATED CURRENT	350mA	700mA	
OUTPUT	DC VOLTAGE RANGE	12~48V	9~24V	
	RATED POWER	16.8W	16.8W	
	RIPPLE & NOISE (max.)Note.2			
		• •	250mVp-p	
	VOLTAGE TOLERANCE Note.3 CURRENT ACCURACY	±8.0%		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±3.0%		
	SETUP, RISE TIME	500ms, 200ms / 230VAC at full load		
	HOLD UP TIME (Typ.)	20ms/230VAC at full load		
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.)	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	0.750.701.74.05	50.4~ 60V	27.6~ 33.5V	
	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	±0.2%/℃ (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 5)	SAFETY STANDARDS	ENEC EN61347-1, EN61347-2-13, EN62384, IP42 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 EN55015,EN61000-3-2 Class A,EN61000-3-3		
	EMC IMMUNITY	Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A		
OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	77*40*29(L*W*H)		
	PACKING	0.1Kg; 120pcs/14Kg/1.06CUFT		
NOTE	All parameters NOT specially	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		
	• • •	sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.		
	·	tolerance, line regulation and load regulation.		
	 Derating may be needed under low input voltage. Please check the static characteristic for more details. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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). 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 			



