





### SELV IP42 ( E UK

#### Applications

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

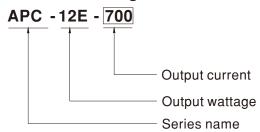
#### **■** Features

- · 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</li>
- · 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-12E series is one 12W 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-12E ideally fits the entry-level LED applications.

#### ■ Model Encoding



## 12W Single Output Switching Power Supply

# APC-12E series

#### **SPECIFICATION**

MODEL		APC-12E-350	APC-12E-700	
	RATED CURRENT	350mA	700mA	
OUTPUT	DC VOLTAGE RANGE	9~36V	9~18V	
	RATED POWER	12.6W	12.6W	
	-		250mVp-p	
	RIPPLE & NOISE (max.)Note.2		250HVp-p	
	VOLTAGE TOLERANCE Note.3			
	CURRENT ACCURACY	±8.0% ±1.0%		
	LINE REGULATION	±1.0% ±3.0%		
	LOAD REGULATION	500ms, 180ms / 230VAC		
	SETUP, RISE TIME			
	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	I	
	EFFICIENCY(Typ.)	81%	79%	
	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	OVER VOLTAGE	39.6~ 46.8V	20.7~ 24.3V	
		Protection type: Shut off o/p voltage, clamping by zener	diode	
	WORKING TEMP.	-30 ~ 70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
		-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 approved; design refer to BS EN/EN 62368-1		
	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		
	EMC IMMUNITY	Compliance to BS EN/EN55024,BS EN/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	0.08Kg; 120pcs/11.8Kg/1.06CUFT		
NOTE		cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		
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.			
	· ·	s set up tolerance, line regulation and load regulation.		
	• ,	nder low input voltage. Please check the static characteristic for more details.  lered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the		
		installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.		
	•	erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).		
	•	ended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) te and IP water proof function installation caution, please refer our user manual before using.		
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