

12W Single Output Switching Power Supply

APC-12 series

User's Manual



- Features :
- Constant current design
- Universal AC input / Full range
- Protections:Short circuit / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- Class ${\rm I\hspace{-0.1em}I}$ power unit, no FG
- Class 2 power unit
- Pass LPS
- IP42 design

LPS IP42

• Suitable for LED related fixture or appliance

8 R-41027766

- (such as LED Decoration or Advertisement devices)(Note.6)
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty IS 15885(Part 2/Sec13)

GTIN CODE

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

SPECIFICATION

MODEL		APC-12-350	APC-12-700	
	RATED CURRENT	350mA	700mA	
OUTPUT	DC VOLTAGE RANGE	9~36V	9~18V	
	RATED POWER	12.6W	12.6W	
	RIPPLE & NOISE (max.) Note.2	300mVp-p	250mVp-p	
	VOLTAGE TOLERANCE Note.3	3 ±5.0%		
	CURRENT ACCURACY	±8.0%		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±3.0%		
	SETUP, RISE TIME	3000ms, 180ms / 230VAC 3000ms, 150ms / 115VAC at full load		
	HOLD UP TIME (Typ.)	20ms/230VAC,15ms/115VAC at full load		
INPUT		90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY(Typ.)	82%	80%	
	AC CURRENT	0.2A/230VAC:0.35A/115VAC		
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=150µs measured at 50% Ipeak) at 230VAC		
	MAX. No. of PSUs on 16A	17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC		
	CIRCUIT BREAKER			
	LEAKAGE CURRENT	0.25mA / 240VAC		
PROTECTION		39.6~ 46.8V	20.7~24.3V	
		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 & EMC (Note 5)	SAFETY STANDARDS Note.7	UL8750,CSA C22.2 No.250.0-08, BIS IS15885, EAC TP TC 004,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/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), EAC TP TC 020		
OTHERS	MTBF	6418.1K hrs min. Telcordia SR-332 (Bellcore); 1097.4K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	77*40*29(L*W*H)		
	PACKING	0.08Kg; 120pcs/11.8Kg/1.06CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.			
	3. Tolerance : includes set up tolerance, line regulation and load regulation.			
	 Derating may be needed under low input voltage. Please check the static characteristic for more details. Please connect L line to the positive pole N line to the negative pole under DC input. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 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 2000n For any application note and IP water proof function installation caution, please refer our user manual before using. 		details. Please connect L line to the positive pole and	
			suisment Cines FMC performance will be offected by the	
		ttps://www.meanwell.com/Upload/PDF/LED_EN.pdf		
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