

MW APC-12E series 12W Single Output Switching Power **Supply Instruction Manual**

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MW APC-12E series 12W Single Output Switching Power Supply



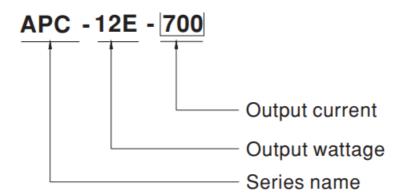
Features

- · 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-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 design (without FG pin) and adopting the 94V-0 flame retardant plastic enclosure, APC-12E ideally fits the entry-level LED applications.

Model Encoding



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

12W Single Output Switching Power Supply

SPECIFICATION

MODEL	APC-12E-350	APC-12E-700

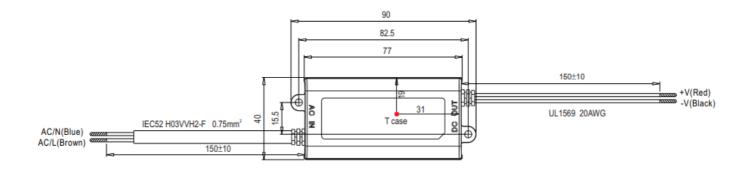
OUTP	RATED CURREN T	350mA	700mA	
	DC VOLTAGE RA	9~36V	9~18V	
	RATED POWER	12.6W	12.6W	
	RIPPLE & NOISE (max.)Note.2	300mVp-p	250mVp-p	
	VOLTAGE TOLERANCE Not e.3	±5.0%		
	CURRENT ACCU RACY	±8.0%		
	LINE REGULATI ON	±1.0%		
	LOAD REGULATI ON	±3.0%		
	SETUP, RISE TIM E	500ms, 180ms / 230VAC		
	HOLD UP TIME (Typ.)	20ms/230VAC at full load		
INPU T	VOLTAGE RANG E Note.4	180 ~ 264VAC 254 ~ 370VDC		
	FREQUENCY RA	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.5/230VAC at full load		
	EFFICIENCY(Typ	81%	79%	
	AC CURRENT	0.2A/230VAC		
	INRUSH CURRE NT(Typ.)	COLD START 70A(twidth=120µs measured at 50% lpeak) at 230VAC		
	MAX. No. of PSU s on 16A CIRCUI T BREAKER	17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURR ENT	0.25mA / 240VAC		
PROT	OVER VOLTAGE	39.6~ 46.8V	20.7~ 24.3V	
ECTI ON		Protection type : Shut off o/p voltage, clamping by zener diode		
	WORKING TEMP.	-30 ~ 70°C(Refer to "Derating Curve")		
	WORKING HUMI	VORKING HUMI DITY 20 ~ 90% RH non-condensing		

ENVI RON MENT	STORAGE TEMP. , HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	
	TEMP. COEFFICI ENT	±0.2%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFE TY & EMC (Note 5)	SAFETY STAND ARDS	IP42, BS EN/EN 62368-1 approved	
	WITHSTAND VO LTAGE	I/P-O/P:3.75KVAC	
	ISOLATION RESI STANCE	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/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry I evel(surge 2KV)	
OTHE RS	MTBF	6112.3K hrs min. Telcordia SR-332 (Bellcore); 1013.6K hrs min. MIL-HDBK -217F (25°C)	
	DIMENSION	77*40*29(L*W*H)	
	PACKING	0.08Kg; 120pcs/11.8Kg/1.06CUFT	

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of a mbient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated wi th a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltage. Please check the static characteristic for more de tails.

NOTE

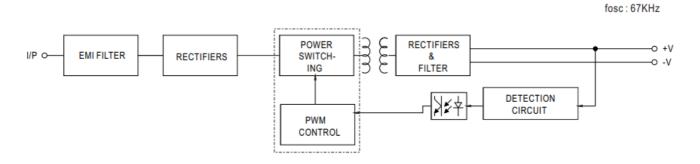
- 5. The power supply is considered as a component that will be operated in combination with final equi pment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 6. The ambient temperature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 7. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NP F/XLG series are recommended.)
- 8. 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



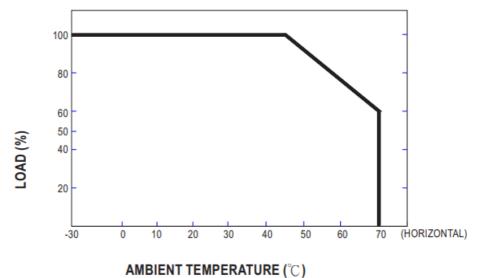
🔆 T case: Max. Case Temperature



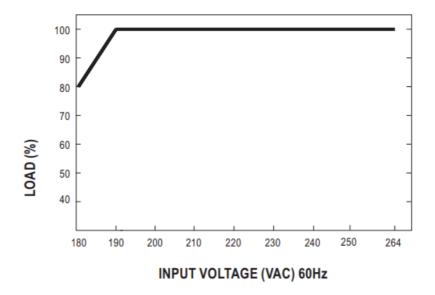
Block Diagram



Derating Curve



Static Characteristics



Documents / Resources



MW APC-12E series 12W Single Output Switching Power Supply [pdf] Instruction Manual APC-12E series, 12W Single Output Switching Power Supply, APC-12E series 12W Single Output Switching Power Supply, Output Switching Power Supply, Power Supply

References

• Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer

Manuals+,