



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

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



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## 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 II power unit, no FG
- Class 2 power unit
- Pass LPS
- IP42 design
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.6)
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

## GTIN CODE

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

## SPECIFICATION

MODEL		APC-12-350	APC-12-700
OUTPUT	RATED CURRENT	350mA	700mA
	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	±5.0%	

	<b>CURRENT ACCURACY</b>	±8.0%	
	<b>LINE REGULATION</b>	±1.0%	
	<b>LOAD REGULATION</b>	±3.0%	
	<b>SETUP, RISE TIME</b>	3000ms, 180ms / 230VAC 3000ms, 150ms / 115VAC at full load	
	<b>HOLD UP TIME (Typ.)</b>	20ms/230VAC,15ms/115VAC at full load	
<b>INPUT</b>	<b>VOLTAGE RANGE</b> Note.4	90 ~ 264VAC      127 ~ 370VDC	
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz	
	<b>EFFICIENCY(Typ.)</b>	82%	80%
	<b>AC CURRENT</b>	0.2A/230VAC;0.35A/115VAC	
	<b>INRUSH CURRENT(Typ.)</b>	COLD START 70A(twidth=150μs measured at 50% Ipeak) at 230VAC	
	<b>MAX. No. of PSUs on 16A CIRCUIT BREAKER</b>	17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC	
	<b>LEAKAGE CURRENT</b>	0.25mA / 240VAC	
<b>PROTECTI</b>	<b>OVER VOLTAGE</b>	39.6~ 46.8V	20.7~ 24.3V

ON		<b>Protection type :</b> Shut off o/p voltage, clamping by zener diode
ENVI RON MENT	<b>WORKING TEMP.</b>	-30 ~ 70°C(Refer to “Derating Curve”)
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +80°C, 10 ~ 95% RH
	<b>TEMP. COEFFICIENT</b>	±0.2%/°C (0 ~ 50°C)
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFE TY & EMC  (Note 5)	<b>SAFETY STANDARDS Note.7</b>	UL8750,CSA C22.2 No.250.0-08, BIS IS15885, EAC TP TC 004,BS EN/EN 62368-1 approved
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3.75KVAC
	<b>ISOLATION RESISTANCE</b>	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH
	<b>EMC EMISSION</b>	Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3, EAC TP TC 020
	<b>EMC IMMUNITY</b>	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	<b>MTBF</b>	6418.1K hrs min. Telcordia SR-332 (Bellcore) ; 1097.4K hrs min. MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	77*40*29(L*W*H)

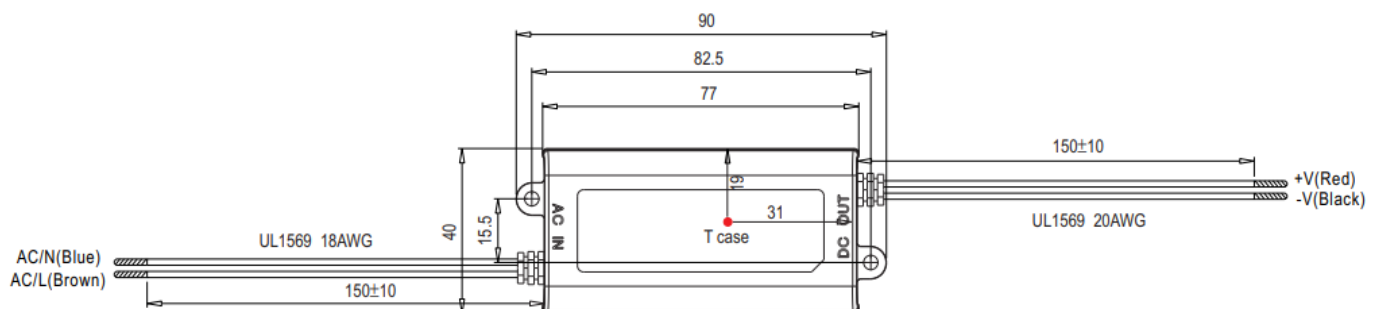
**PACKING**

0.08Kg; 120pcs/11.8Kg/1.06CUFT

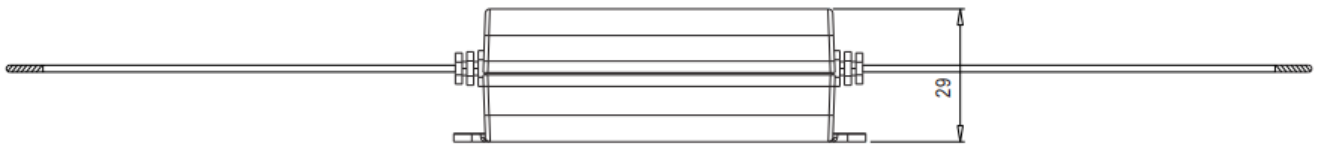
**NOTE**

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.
4. Derating may be needed under low input voltage. Please check the static characteristic for more details.  
Please connect L line to the positive pole and N line to the negative pole under DC input.
5. 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.
6. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)
7. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.
8. 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).
9. 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](https://www.meanwell.com/Upload/PDF/LED_EN.pdf)

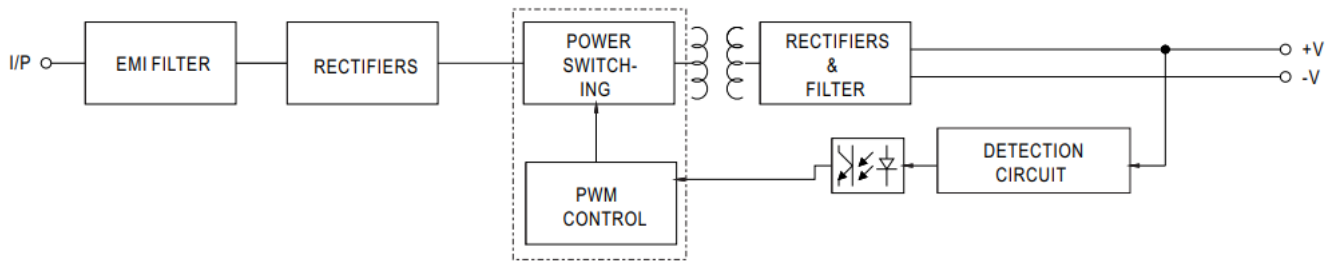
✳ **Product Liability Disclaimer:** For detailed information, please refer to <https://www.meanwell.com/service/Disclaimer.aspx>

**Mechanical Specification**

- ✳ **T case:** Max. Case Temperature.

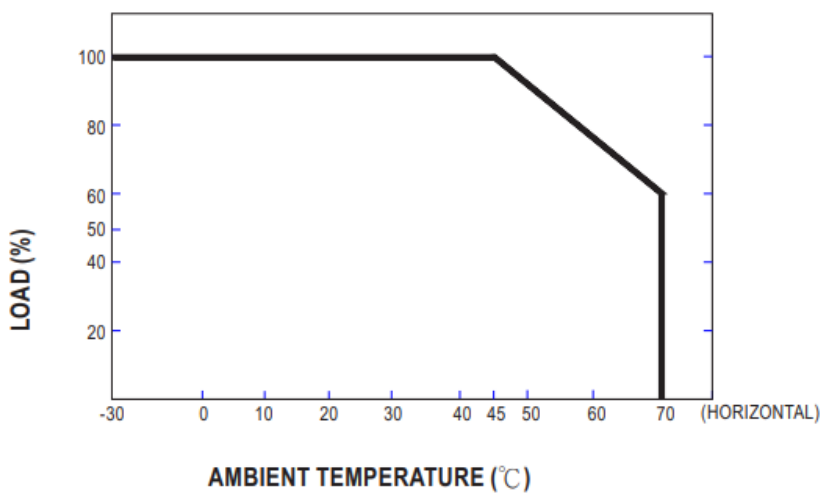


## • Block Diagram



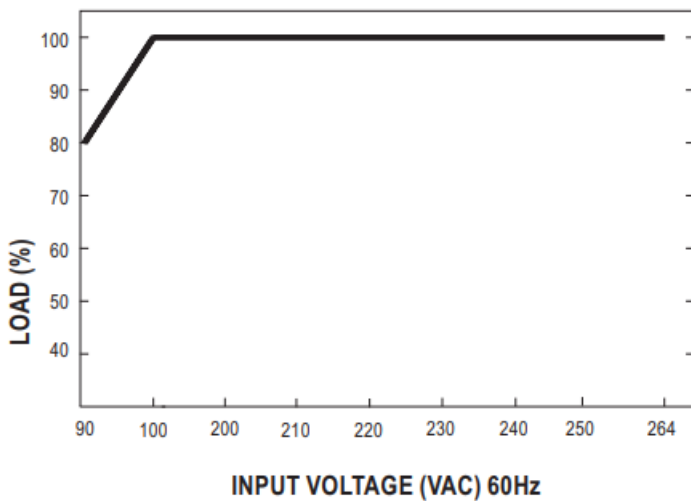
## • Derating Curve

AMBIENT TEMPERATURE (°C)

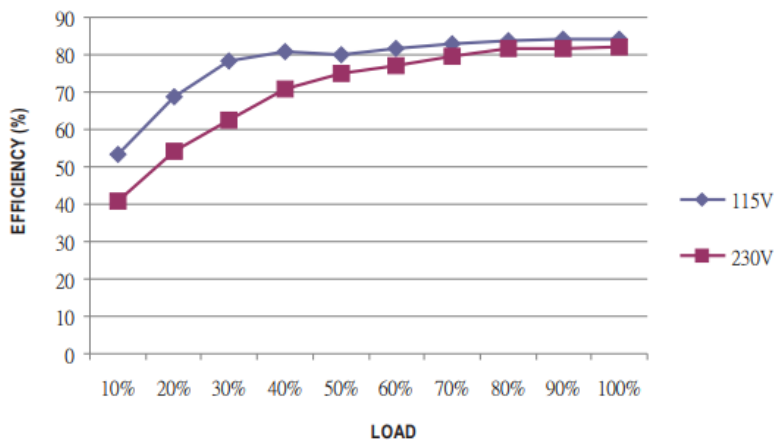


## • Static Characteristics

INPUT VOLTAGE (VAC) 60Hz



## • EFFICIENCY vs LOAD (APC-12-350)



## User's Manual

### Scan Me



 LPS IP42

IS 15885(Part 2/Sec13)  
  
 R-41027766

EAC

c  US

CE


UK  
CA



(optional)



## Documents / Resources

	<p><a href="#">MW APC-12 series 12W Single Output Switching Power Supply</a> [pdf] Instruction Manual          APC-12 series, 12W Single Output Switching Power Supply, APC-12 series 12W Single Output Switching Power Supply, Output Switching Power Supply, Power Supply</p>
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## References

- [MW Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)