



MEAN WELL APC-8-250 8W Single Output Switching Power Supply Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL APC-8-250 8W Single Output Switching Power Supply Owner's Manual 

Contents

- [1 MEAN WELL APC-8-250 8W Single Output Switching Power Supply](#)
- [2 Features](#)
- [3 Description](#)
- [4 SPECIFICATION](#)
- [5 8W Single Output Switching Power Supply](#)
- [6 Mechanical Specification](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)
- [8 Related Posts](#)



MEAN WELL APC-8-250 8W Single Output Switching Power Supply



Features

- Constant current design
- Universal AC input / Full range
- Class II power unit, no FG

Fully isolated plastic case

- IP42 design
- Small and compact size
- Cooling by free air convection
- Protection: Short circuit
- No load power consumption <0.5W
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

Applications

Suitable for LED-related fixtures or appliances (such as LED Decoration or Advertisement devices) (Note.6)

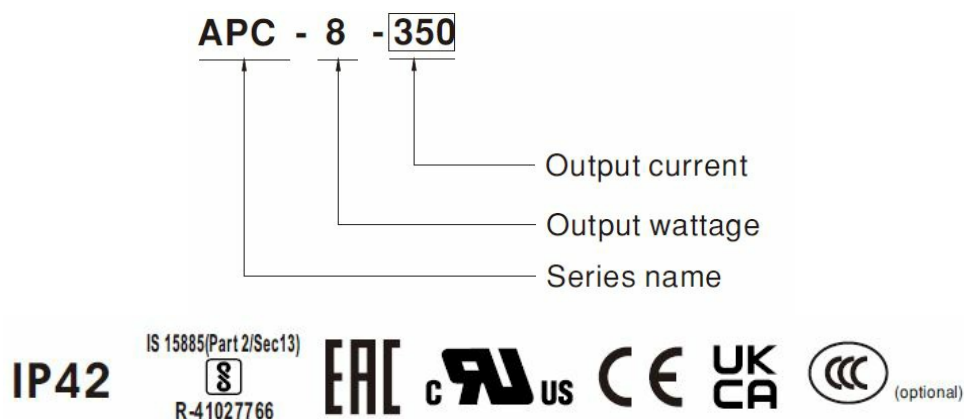
GTIN CODE

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

Description

APC-8 series is one 8W AC/DC constant current mode single output LED power supply. It accepts the full range input 90~264VAC and provides four models with different output currents, 250mA, 350mA, 500mA, and 700mA, respectively, that the small-wattage LED applications employ the most frequently. Exploiting Class II design (without F pin) and adopting the 94V-0 flame retardant plastic enclosure, APC-8 ideally fits entry-level LED applications.

Model Encodina



SPECIFICATION

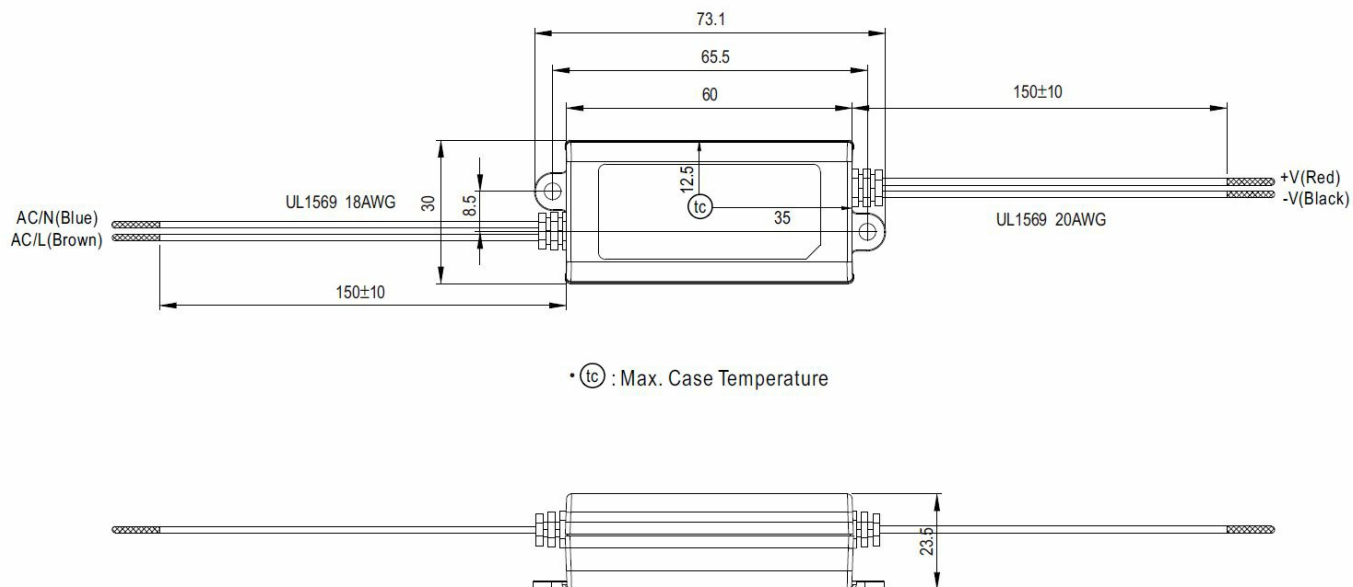
MODEL		APC-8-250	APC-8-350	APC-8-500	APC-8-700
	RATED CURRENT	250mA	350mA	500mA	700mA

OUTP UT	OPERATING VOL TAGE RANGE No te.4	16~32V	11~23V	8~16V	6~11V
	RATED POWER	8W	8.05W	8W	7.7W
	RIPPLE & NOISE (max.) Note.2	350mVp-p	300mVp-p	300mVp-p	250mVp-p
	NO LOAD OUTP UT VOLTAGE	38V	29V	24V	17V
	CURRENT ACCU RACY	±8.0%			
	SETUP, RISE TIM E	500ms, 180ms / 230VAC 3000ms, 150ms / 115VAC at full load			
	HOLD UP TIME (Typ.)	20ms/230VAC at full load			
INPU T	VOLTAGE RANG E Note.3	90 ~ 264VAC 127 ~ 370VDC (Note.5)			
	FREQUENCY RA NGE	47 ~ 63Hz			
	EFFICIENCY(Typ.)	82.5%	81.5%	81%	80%
	AC CURRENT	0.15A/230VAC;0.3A/115VAC			
	INRUSH CURRE NT(Typ.)	COLD START 70A(twidth=120μs measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURR ENT	0.25mA / 240VAC			
PROT ECTI ON	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.			
ENVI RON MENT	WORKING TEMP.	-15 ~ 70°C(Refer to “Derating Curve”)			
	WORKING HUMI DITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP. , HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICI ENT	±0.2%/°C (0 ~45°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFE	SAFETY STAND ARDS Note.7	UL8750,CSA C22.2 No.250.0-08, BIS IS15885, EAC TP TC 004; BS EN/EN 6236 8-1 approved			
	WITHSTAND VO LTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESI STANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH			

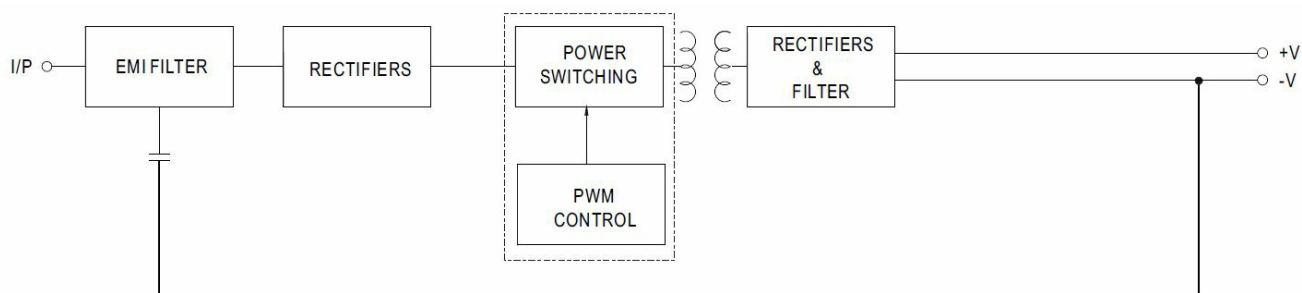
TY & EMC	EMC EMISSION	Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3, EAC TP TC 020
	EMC IMMUNITY	Compliance to BS EN/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), EAC TP TC 020
OTHERS	MTBF	14511.7K hrs min. Telcordia SR-332 (Bellcore) ; 2275.9K hrs min. MIL-HD BK-217F (25°C)
	DIMENSION	60*30*23.5mm(L*W*H)
	PACKING	0.05Kg;144pcs/7.6Kg/0.79CUFT
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Derating may be needed under low input voltage, please check the static characteristic for more details.</p> <p>4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED-related applications, but please reconfirm special electrical requirements for some specific system designs.</p> <p>5. When applying DC voltage for input, please connect the brown input wire to the positive side where as the blue input wire to the negative side.</p> <p>6. This product is not intended for LED lighting luminaire applications in the EU. (In the EU the LPF/NPF/XLG series are recommended.)</p> <p>7. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. Please contact MEAN WELL for details.</p> <p>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitudes higher than 2000m(6500ft).</p> <p>9. For any application note and IP waterproof function installation caution, please refer to our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</p> <p>※ Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

8W Single Output Switching Power Supply

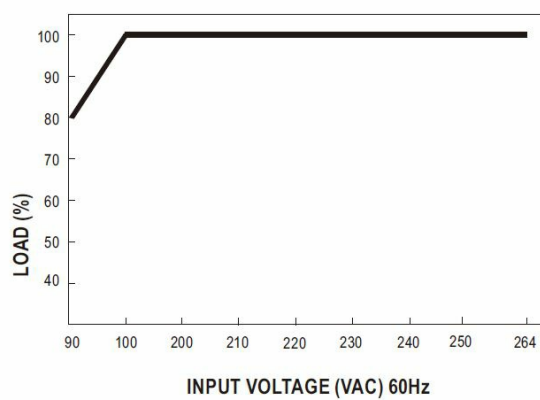
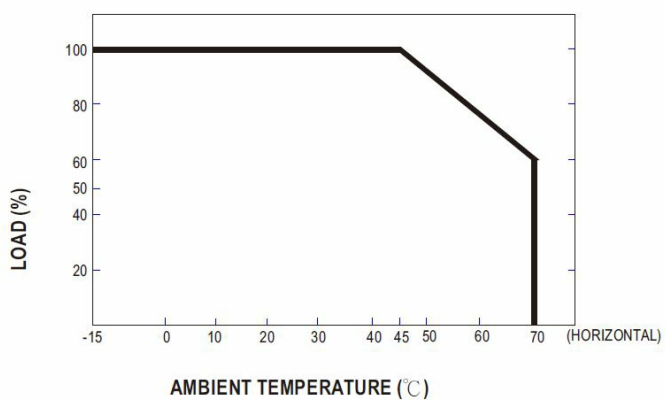
Mechanical Specification



Block Diagram

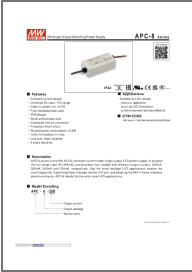


Derating Curve Static Characteristics



File Name:APC-8-SPEC 2023-04-14

Documents / Resources

	<p>MEAN WELL APC-8-250 8W Single Output Switching Power Supply [pdf] Owner's Manual APC-8-250 8W Single Output Switching Power Supply, APC-8-250, 8W Single Output Switchin g Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supp ly</p>
--	--

References

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