



8W Single Output Switching Power Supply

APC-8 series



IS 15685(Part 2/Sec13)
IP42 R-41027766 EAC cUL us CE CA CCC (optional)

■ 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

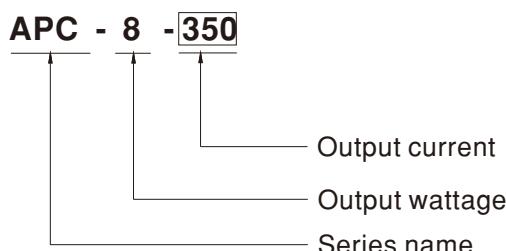
■ Applications

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

■ 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 current, 250mA, 350mA, 500mA 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-8 ideally fits the entry-level LED applications.

■ Model Encoding





SPECIFICATION

MODEL	APC-8-250	APC-8-350	APC-8-500	APC-8-700			
OUTPUT	RATED CURRENT	250mA	350mA	500mA			
	OPERATING VOLTAGE RANGE Note.4	16~32V	11~23V	8~16V			
	RATED POWER	8W	8.05W	8W			
	RIPPLE & NOISE (max.) Note.2	350mVp-p	300mVp-p	300mVp-p			
	NO LOAD OUTPUT VOLTAGE(max.)	38V	29V	24V			
	CURRENT ACCURACY	±8.0%					
	SETUP, RISE TIME	500ms, 180ms / 230VAC	3000ms, 150ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	20ms/230VAC at full load					
INPUT	VOLTAGE RANGE Note.3	90 ~ 264VAC	127 ~ 370VDC (Note.5)				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY(Typ.)	82.5%	81.5%	81%			
	AC CURRENT	0.15A/230VAC;0.3A/115VAC					
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120μs measured at 50% Ipeak) at 230VAC					
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.					
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 ~ 45°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS Note.7	UL8750,CSA C22.2 No.250.0-08, BIS IS15885, EAC TP TC 004 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, EAC TP TC 020					
	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, EAC TP TC 020					
OTHERS	MTBF	2275.8K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	60*30*23.5mm(L*W*H)					
	PACKING	0.05Kg;144pcs/7.6Kg/0.70CUFT					
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. Derating may be needed under low input voltage, please check the static characteristic for more details. 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 design. 5. When applying DC voltage for input, please connect the brown input wire to the positive side whereas blue input wire to the negative side. 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						
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

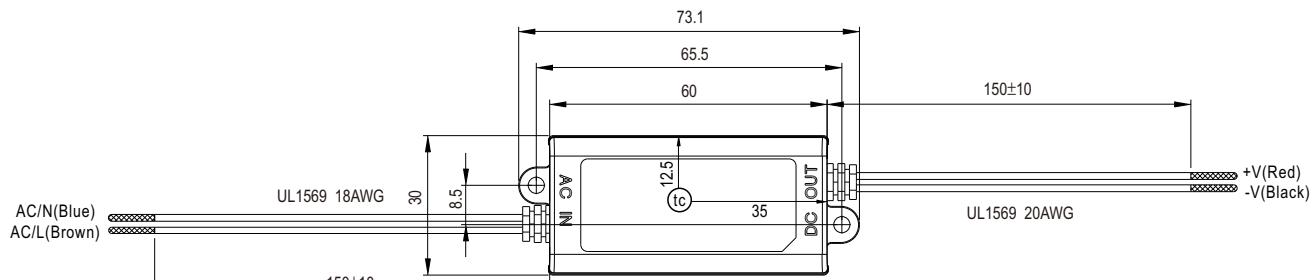


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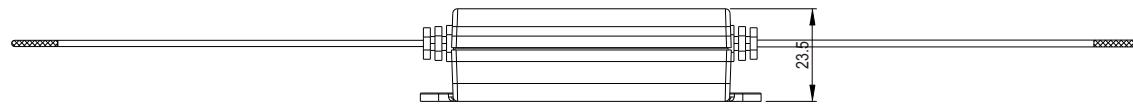
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■ Mechanical Specification

Unit:mm

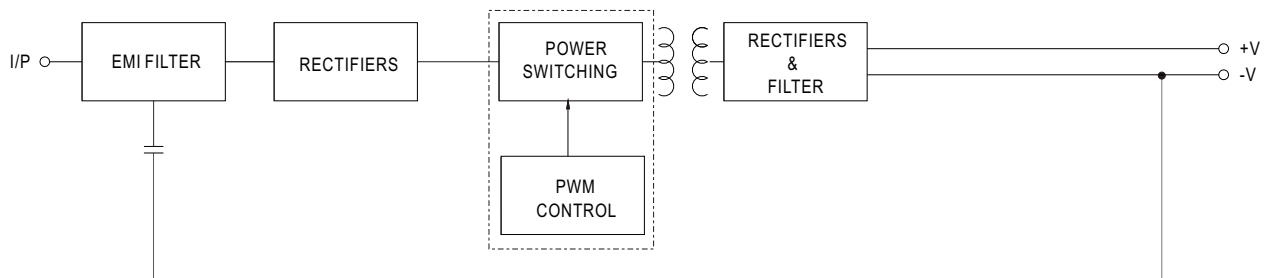


• (tc) : Max. Case Temperature

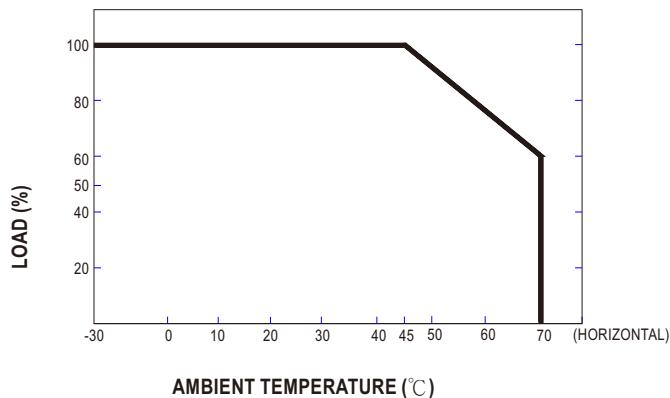


■ Block Diagram

fosc : 67KHz



■ Derating Curve



■ Static Characteristics

