16W Single Output Switching Power Supply

APC-16 series

Features :

- Constant current mode design
- Universal AC input / Full range
- Protections:Short circuit / Over current / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

SPECIFICATION

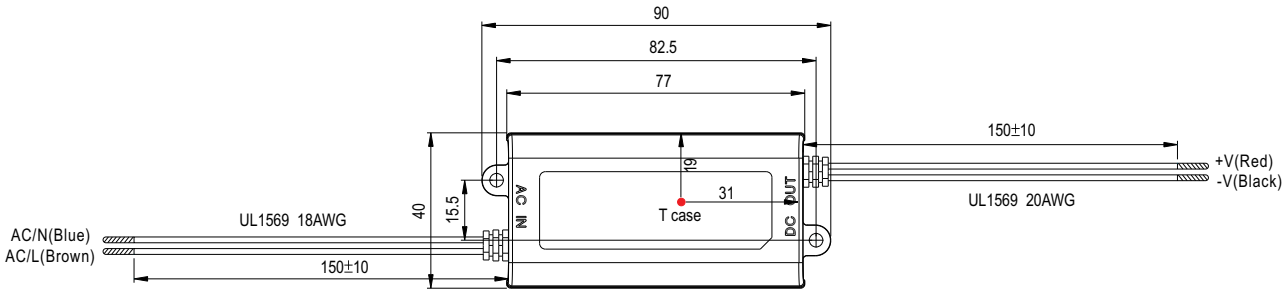
MODEL		APC-16-350	APC-16-700
OUTPUT	RATED CURRENT	350mA	700mA
	DC VOLTAGE RANGE	12~48V	9~24V
	RATED POWER	16.8W	16.8W
	RIPPLE & NOISE (max.) Note.2	300mVp-p	250mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	CURRENT ACCURACY	±5.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±3.0%	
	SETUP, RISE TIME	3000ms, 200ms / 230VAC 3000ms, 200ms / 115VAC at full load	
	HOLD UP TIME (Typ.)	20ms/230VAC 12ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY(Typ.)	84%	83%
	AC CURRENT	0.3A/230VAC;0.5A/115VAC	
	INRUSH CURRENT(max.)	Cold start 35A/115VAC,70A/230VAC	
	LEAKAGE CURRENT	0.25mA / 240VAC	
PROTECTION	OVER VOLTAGE	50.4~ 60V	27.6~ 33.5V
		Protection type : Shut off o/p voltage, clamping by zener diode	
ENVIRONMENT	WORKING TEMP.	-30 ~ 70℃(Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.2%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note 5)	SAFETY STANDARDS	Design refer to TUV EN60950-1, EN61347-2-13, UL8750	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃/ 70% RH	
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A	
OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25)	
	DIMENSION	77*40*29(L*W*H)	
	PACKING	0.1Kg; 120pcs/14Kg/0.93CUFT	

NOTE

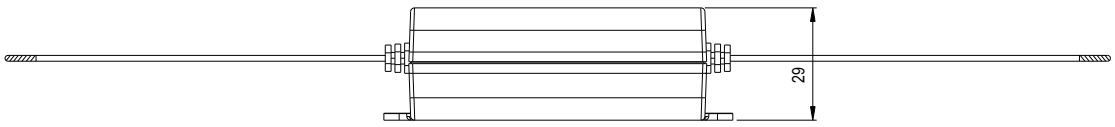
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation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

■ Mechanical Specification

Unit:mm

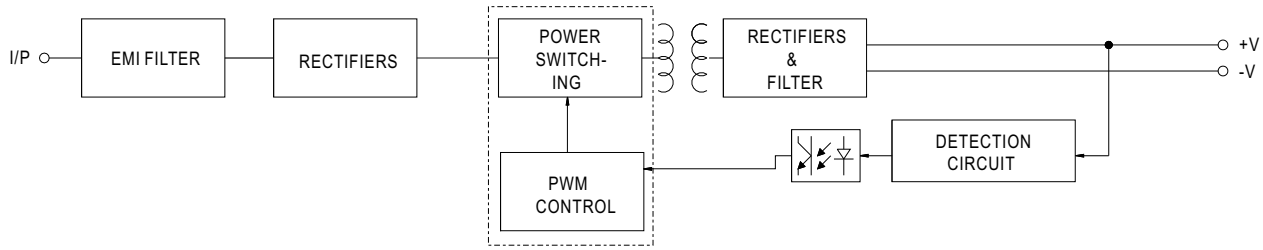


※ T case: Max. Case Temperature

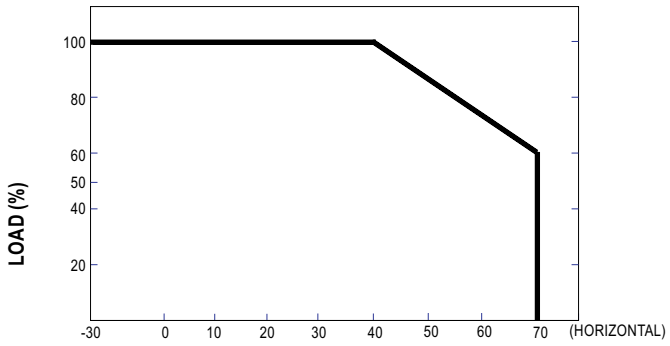


■ Block Diagram

fosc : 67KHz

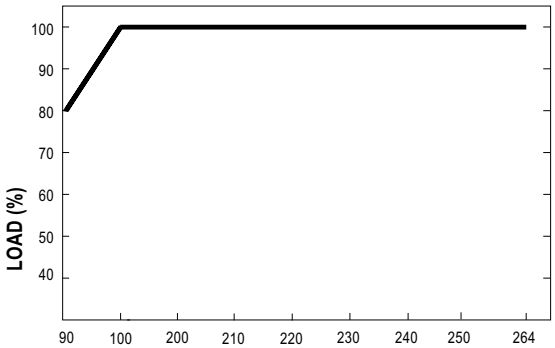


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics



INPUT VOLTAGE (VAC) 60Hz