



## ■ Features :

- Constant current mode 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
- IP30 design
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

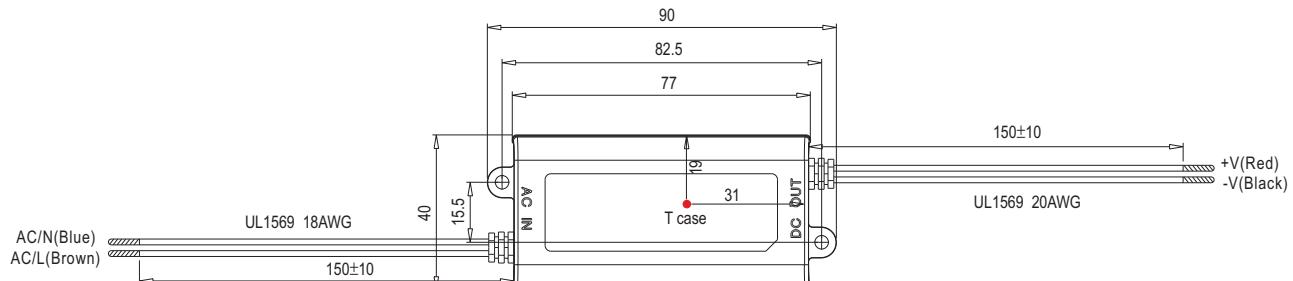


## SPECIFICATION

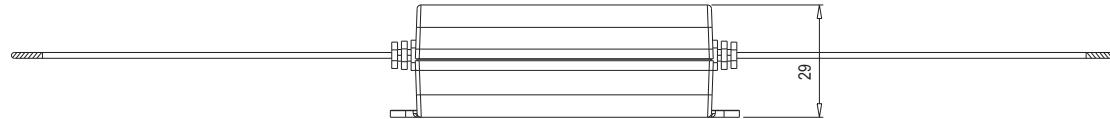
MODEL	APC-16-350		APC-16-700
OUTPUT	RATED CURRENT	350mA	700mA
	DC VOLTAGE RANGE	12~48V	9~24V
	RATED POWER	16.8W	16.8W
	RIPLPE & NOISE (max.) Note.2	300mVp-p	250mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	CURRENT ACCURACY	±8.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±3.0%	
	SETUP, RISE TIME	3000ms, 200ms / 230VAC	3000ms, 200ms / 115VAC at full load
INPUT	HOLD UP TIME (Typ.)	20ms/230VAC	12ms/115VAC at full load
	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(Typ.)	COLD START 45A(twidth=210μs measured at 50% Ipeak) at 230VAC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	13 units (circuit breaker of type B) / 23 units (circuit breaker of type C) at 230VAC	
PROTECTION	LEAKAGE CURRENT	0.25mA / 240VAC	
	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°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 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL8750, CSA C22.2 No.250.0-08 approved, Design refer to TUV EN61347-1	
	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 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°C)	
	DIMENSION	77*40*29(L*W*H)	
	PACKING	0.1Kg; 120pcs/14Kg/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. 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. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit. 7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.		

## ■ Mechanical Specification

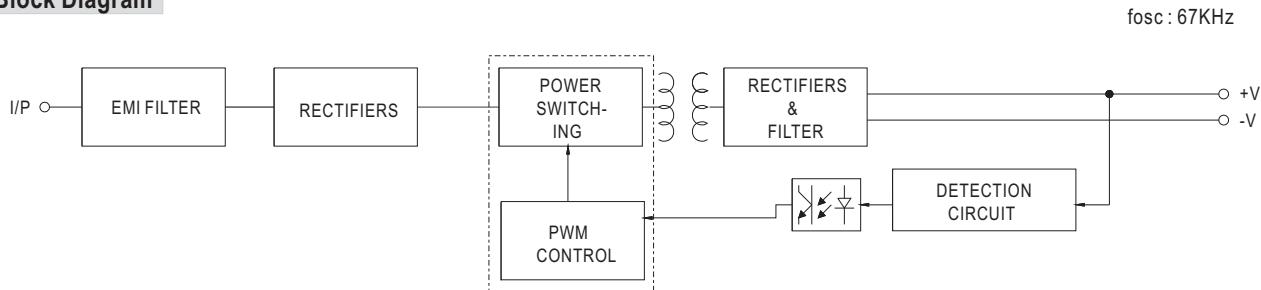
Unit:mm



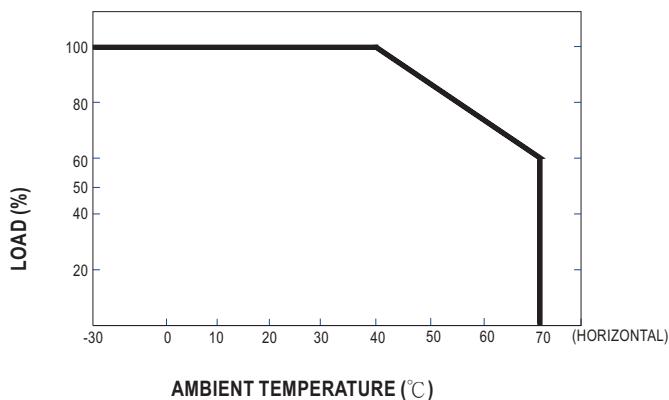
※ T case: Max. Case Temperature



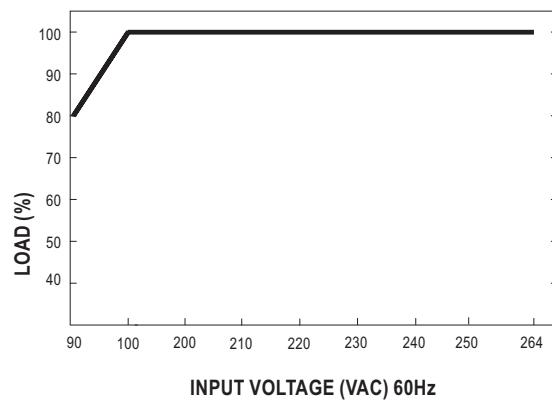
## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics



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