



## ■ Features :

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over load / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- Class II power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

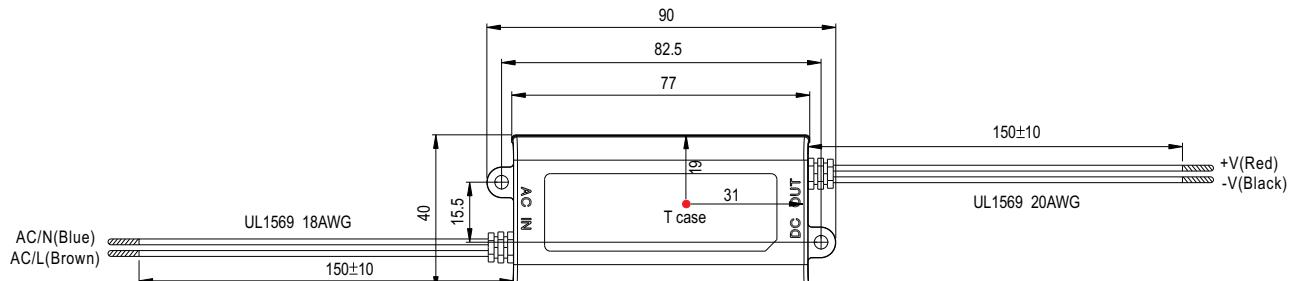


## SPECIFICATION

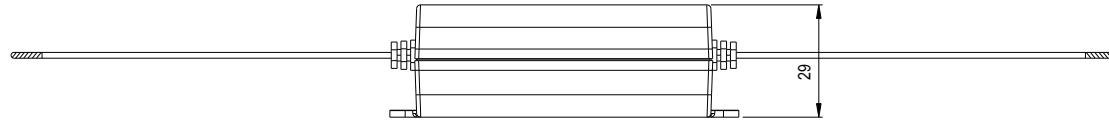
MODEL	APV-12-5	APV-12-12	APV-12-15	APV-12-24
OUTPUT	DC VOLTAGE	5V	12V	15V
	RATED CURRENT	2A	1A	0.8A
	CURRENT RANGE	0 ~ 2A	0 ~ 1A	0 ~ 0.8A
	RATED POWER	10W	12W	12W
	RIPLPE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±2.0%		
	SETUP, RISE TIME Note.6	1500ms, 30ms / 230VAC	1500ms, 30ms / 115VAC at full load	
INPUT	HOLD UP TIME (Typ.)	20ms/230VAC	15ms/115VAC at full load	
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	76%	82%	82%
	AC CURRENT	0.2A/230VAC	0.35A/115VAC	
	INRUSH CURRENT(max.)	COLD START 35A/115VAC	70A/230VAC	
PROTECTION	LEAKAGE CURRENT	0.25mA / 240VAC		
	OVER LOAD	Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V
		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	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	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°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)		
	DIMENSION	77*40*29(L*W*H)		
	PACKING	0.08Kg; 120pcs/11.8Kg/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 characteristics 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.			

## ■ Mechanical Specification

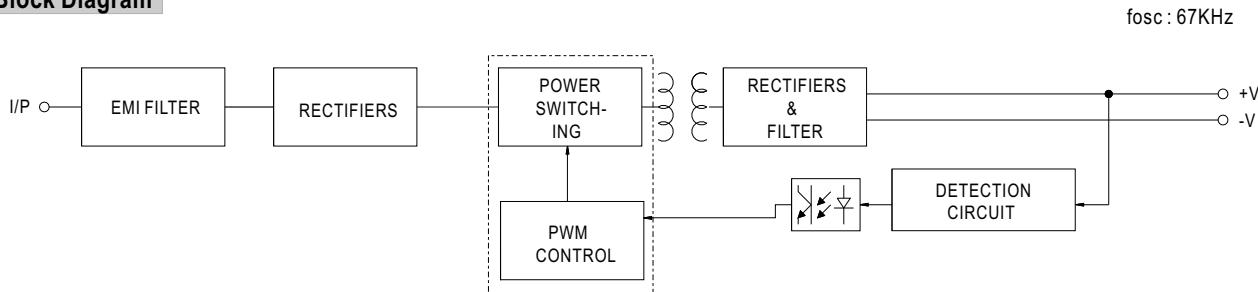
Unit:mm



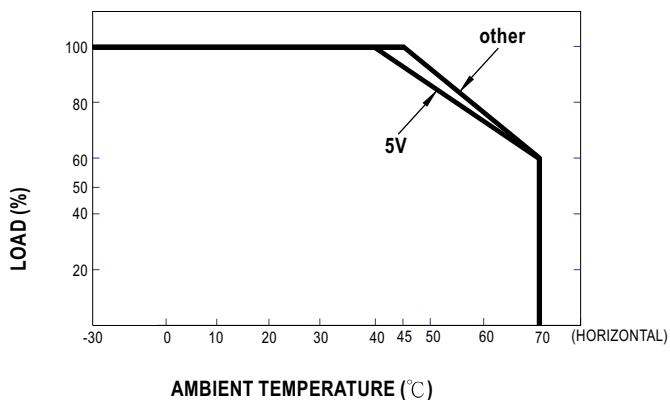
※ T case: Max. Case Temperature



## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics

