



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 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
- 1 year warranty

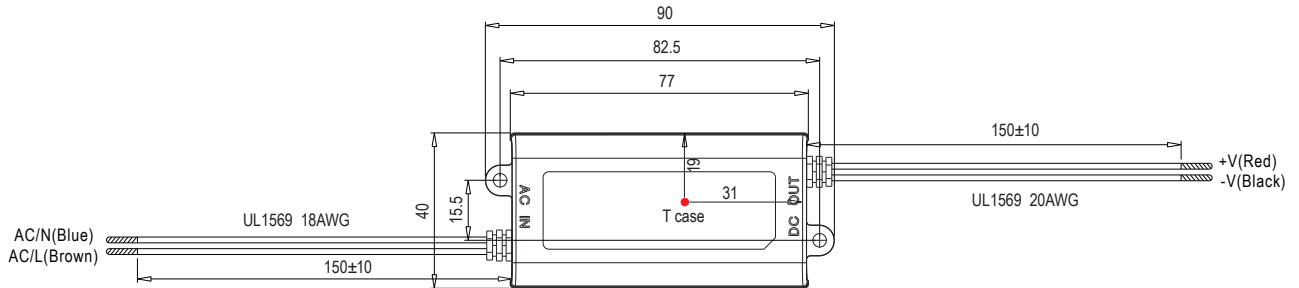
SPECIFICATION



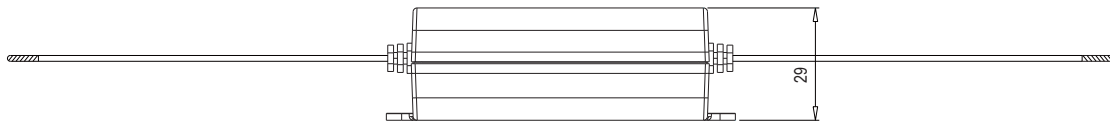
MODEL		APV-12-5		APV-12-12	APV-12-15	APV-12-24
OUTPUT	DC VOLTAGE	5V		12V	15V	24V
	RATED CURRENT	2A		1A	0.8A	0.5A
	CURRENT RANGE	0 ~ 2A		0 ~ 1A	0 ~ 0.8A	0 ~ 0.5A
	RATED POWER	10W		12W	12W	12W
	RIPPLE & NOISE (max.) Note.2	100mVp-p		120mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%				
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±2.0%				
	SETUP, RISE TIME Note.6	1500ms, 30ms / 230VAC		1500ms,30ms / 115VAC at full load		
	HOLD UP TIME (Typ.)	20ms/230VAC		15ms/115VAC at full load		
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	76%		82%	82%	84%
	AC CURRENT	0.2A/230VAC 0.35A/115VAC				
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120μs measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	0.25mA / 240VAC				
PROTECTION	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	27.6 ~ 32.4V
		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	±0.03%/ (0 ~ 50)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL8750,CSA C22.2 No.250.0-08, ENEC EN61347-1,EN61347-2-13,EN62384 Independent,IP30 Approved				
	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	0.08Kg; 120pcs/11.8Kg/1.06CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 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-quality 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. 7. 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. 8. 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

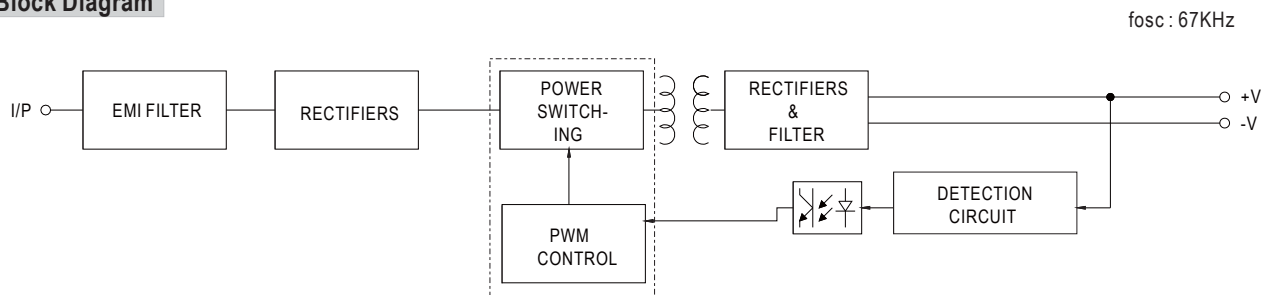
Unit:mm



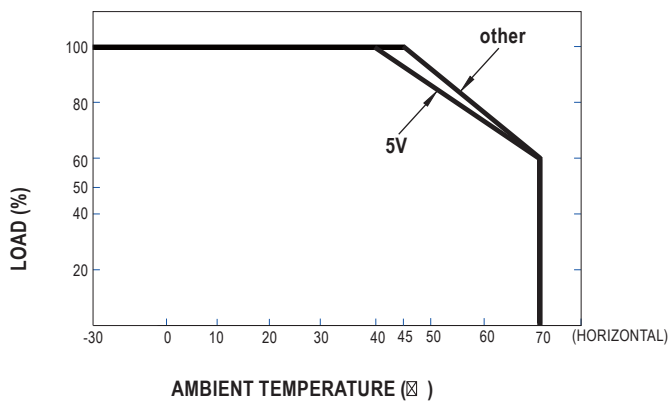
☒ T case: Max. Case Temperature



Block Diagram



Derating Curve



Static Characteristics

