



■ 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
- Class 2 power unit
- Pass LPS
- IP42 design
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

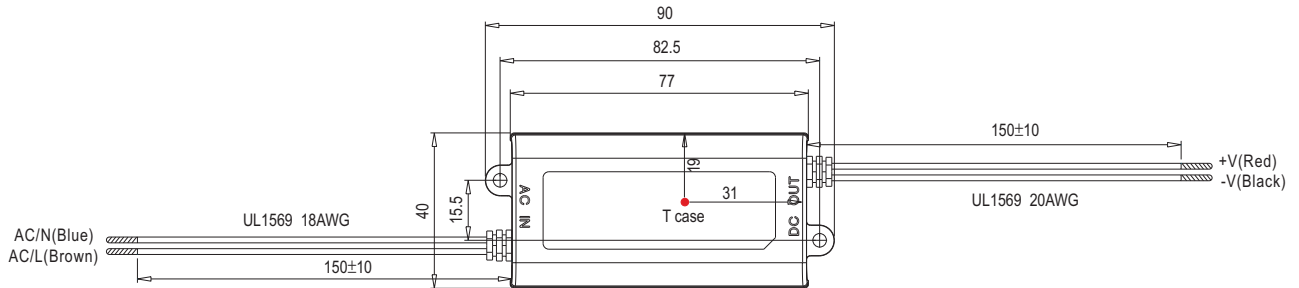


SPECIFICATION

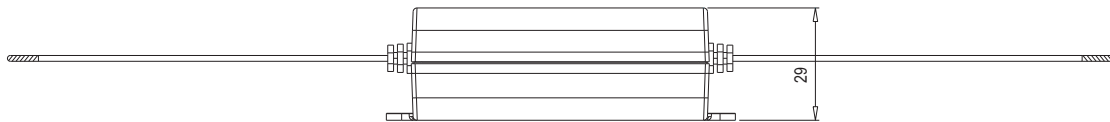
MODEL		APV-16-5		APV-16-12		APV-16-15		APV-16-24	
OUTPUT	DC VOLTAGE	5V		12V		15V		24V	
	RATED CURRENT	2.6A		1.25A		1A		0.67A	
	CURRENT RANGE	0 ~ 2.6A		0 ~ 1.25A		0 ~ 1A		0 ~ 0.67A	
	RATED POWER	13W		15W		15W		16.08W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p		120mVp-p		120mVp-p		150mVp-p	
	VOLTAGE TOLERANCE 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		12ms/115VAC at full load						
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	76%		80%		81%		83%	
	AC CURRENT	0.3A/230VAC 0.5A/115VAC							
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=185µs measured at 50% Ipeak) at 230VAC							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) 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,IP42 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*29mm (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℃ 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. 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

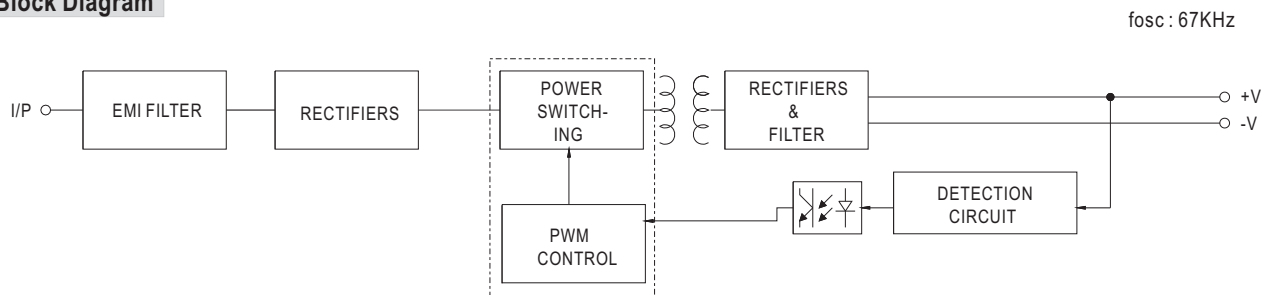
Unit:mm



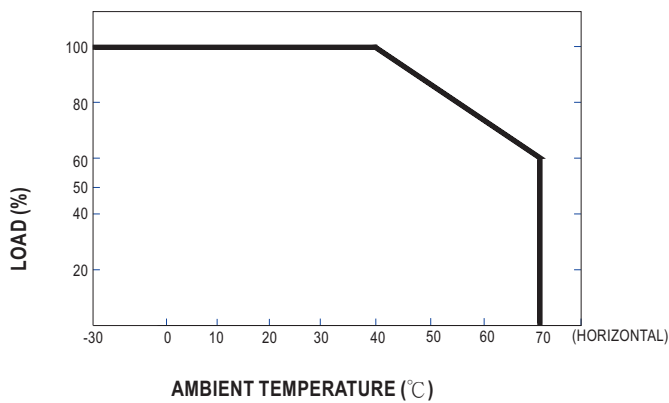
※ T case: Max. Case Temperature



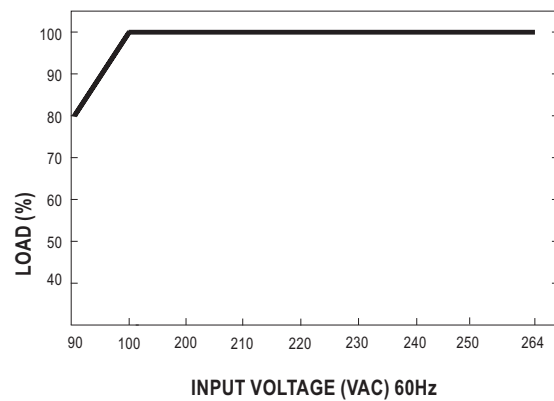
Block Diagram



Derating Curve



Static Characteristics



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well:

[APV-16-12](#) [APV-16-15](#) [APV-16-24](#) [APV-16-5](#) [APV-16E-12](#)