



■ 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

IS 15885(Part 2/Sec13)



R-41027766 (except for 15V)

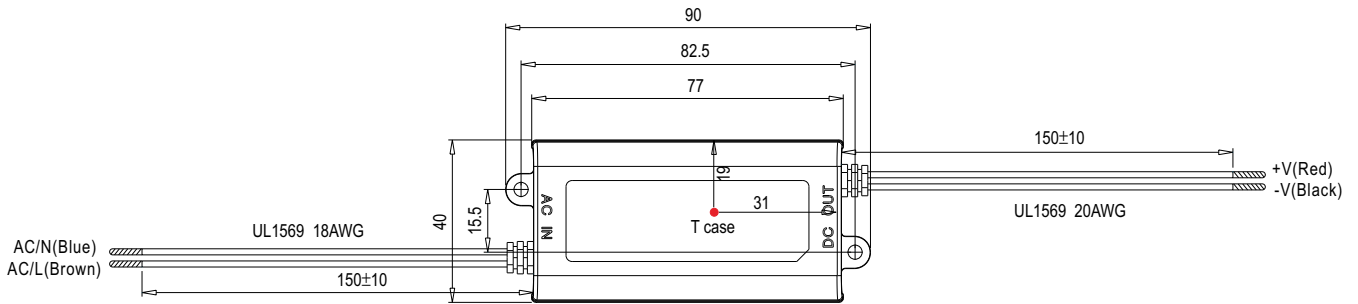


SPECIFICATION

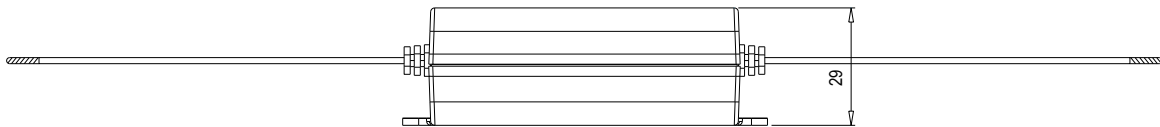
MODEL		APV-12-5	APV-12-12 HPL-PS	APV-12-15	APV-12-24	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	
	RATED CURRENT	2A	1A	0.8A	0.5A	
	CURRENT RANGE	0 ~ 2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.5A	
	RATED POWER	10W	12W	12W	12W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	150mVp-p	
	VOLTAGE TOLERANCE Note.3	±5.0%				
	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				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	17 units (circuit breaker of type B) / 29 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	
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 Note.8	UL8750, CSA C22.2 No.250.0-08, ENEC EN61347-1, EN61347-2-13, EN62384 Independent, IP42 Approved; design refer to EN60950-1				
	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 EN55032, EN61000-3-2 Class A, EN61000-3-3				
	EMC IMMUNITY	Compliance to EN55024, 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	0.08Kg; 120pcs/11.8Kg/1.06CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.</p>					

Mechanical Specification

Unit:mm

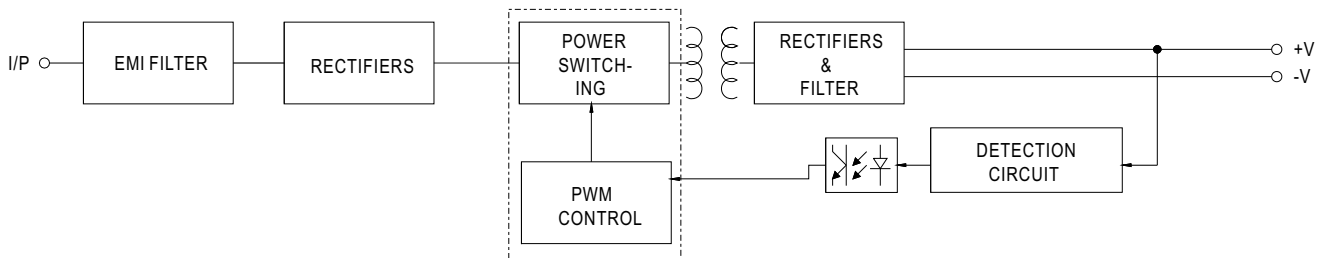


※ T case: Max. Case Temperature

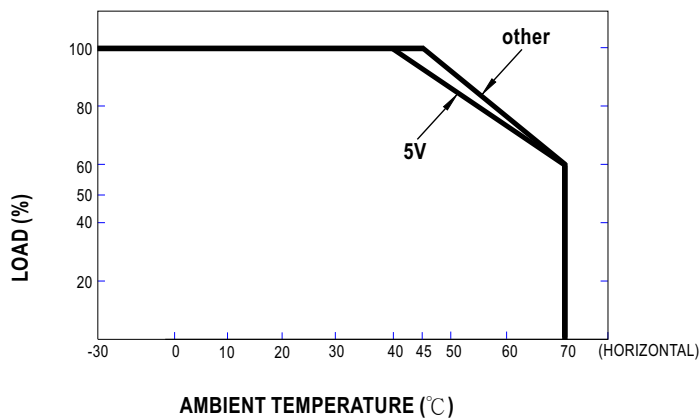


Block Diagram

fosc : 67KHz



Derating Curve



Static Characteristics

