



■ Features :

- Constant voltage mode power supply
- Universal AC input / Full range
- Withstand 300VAC Surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- IP42 design
- Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.9)
- 2 years warranty

User's Manual



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

SPECIFICATION

IP42 LPS

MODEL	APV-25-5		APV-25-12		APV-25-15		APV-25-24		APV-25-36		
OUTPUT	DC VOLTAGE	5V	12V		15V		24V		36V		
	RATED CURRENT	3.5A	2.1A		1.68A		1.05A		0.7A		
	CURRENT RANGE	0 ~ 3.5A	0 ~ 2.1A		0 ~ 1.68A		0 ~ 1.05A		0 ~ 0.7A		
	RATED POWER	17.5W	25.2W		25.2W		25.2W		25.2W		
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p		150mVp-p		150mVp-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.)	75.5%	82%		83%		83%		84%		
	AC CURRENT	0.4A/230VAC 0.8A/115VAC									
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=310μs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	9 units (circuit breaker of type B) / 15 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 ~ 6.95V	13.8 ~ 16.2V		17.25 ~ 21V		27 ~ 32.4V		41.4 ~ 48.6V		
		Protection type : Shut down o/p voltage, re-power on to recover									
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. 250.0-13, BIS IS15885, EAC TP TC 004,IP42 BS EN/EN 62368-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH									
	EMC EMISSION	Compliance to BS EN/EN55032,BS EN/EN61000-3-2 Class A,BS EN/EN61000-3-3, EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), EAC TP TC 020									
OTHERS	MTBF	5489.6K hrs min. Telcordia SR-332 (Bellcore) ; 600.0K hrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	84*57*29.5mm (L*W*H)									
	PACKING	0.13Kg; 72pcs / 10.4Kg / 0.92CUFT									

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.
(as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)
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 ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
8. For any application note and IP water proof function installation caution, please refer our user manual before using.
https://www.meanwell.com/Upload/PDF/LED_EN.pdf
9. This product is not intended for LED lighting luminaire applications in the EU and China. (In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.)



25W Single Output Switching Power Supply

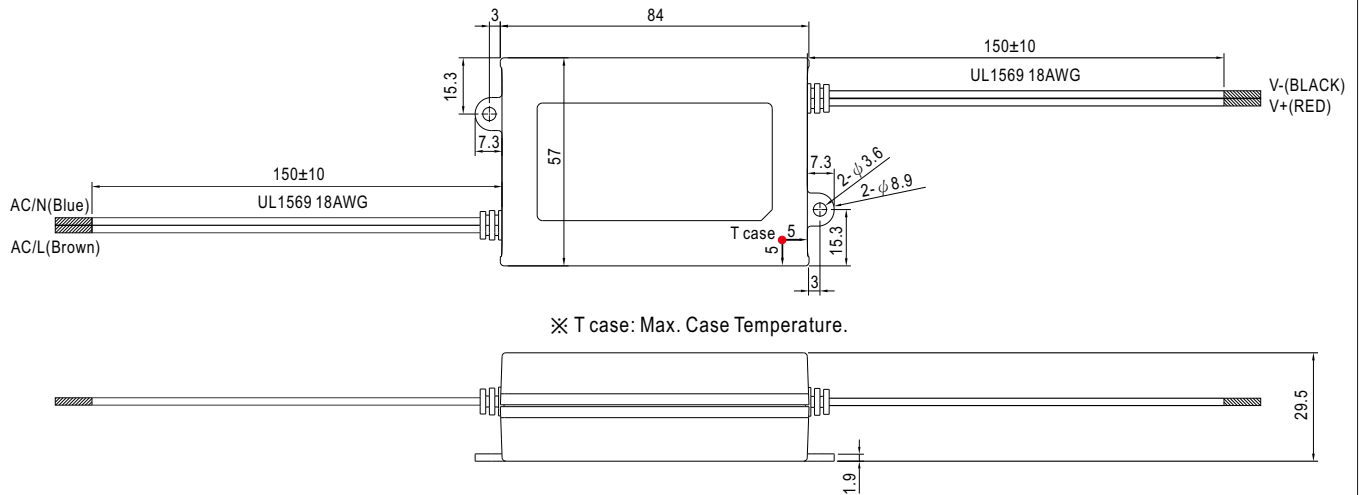
APV-25 series

Mechanical Specification

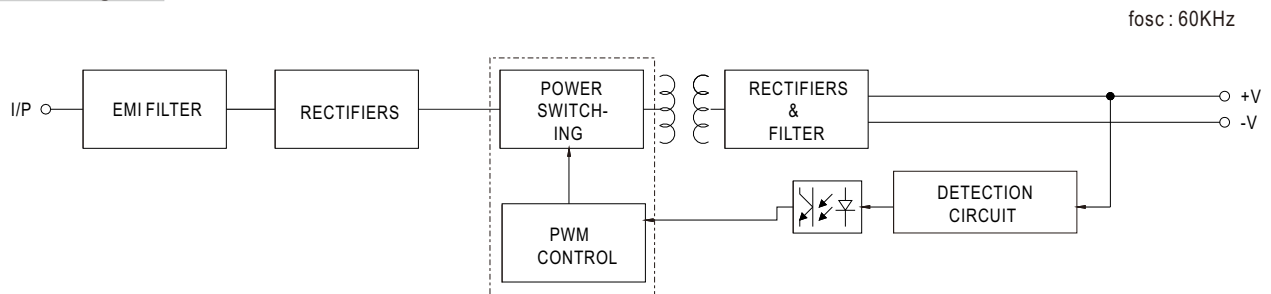
Case No.PCD16A

Unit:mm

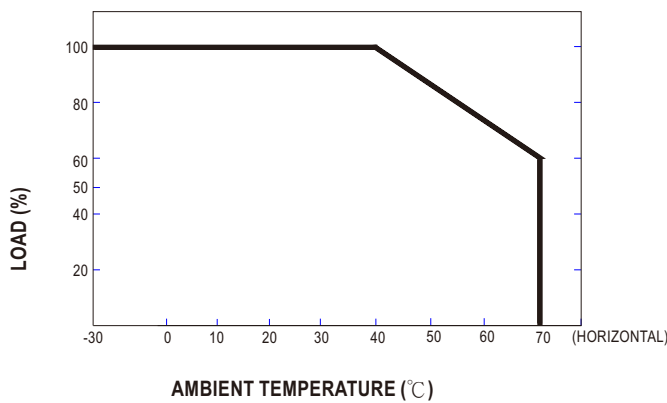
Tolerance:±1



Block Diagram



Derating Curve



Static Characteristics

