

MEAN WELL APV-35 Series 35W Single Output Switching Power Supply



MEAN WELL APV-35 Series 35W Single Output Switching Power Supply Owner's Manual

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MEAN WELL APV-35 Series 35W Single Output Switching Power Supply



Product Information

Specifications:

- **Model:** APV-35-5, APV-35-12, APV-35-15, APV-35-24, APV-35-36
- **Output Voltage:** 5V, 12V, 15V, 24V, 36V
- **Rated Current:** 5A, 3A, 2.4A
- **Rated Power:** 25W, 36W
- **Ripple & Noise:** 120mVp-p, 150mVp-p
- **Efficiency:** 76.5%, 83%, 84%
- **Operating Temperature:** -30°C to 70°C
- **Working Humidity:** 20% to 90% RH non-condensing
- **Safety Standards:** UL8750, CSA-C22.2 No. 250.0-13, BIS IS15885, EAC TP TC 004, IP42, BS EN/EN 62368-1 Approved
- **EMC Compliance:** BS EN/EN55032, BS EN/EN61000-3-2 Class A, BS EN/EN61000-3-3
- **Isolation Resistance:** I/P-O/P:3KVAC I/P-O/P:>100M Ohms/500VDC

Product Usage Instructions

Installation:

1. Ensure the input power source matches the voltage range specified (90 ~ 264VAC).
2. Connect the output terminals to your device following the correct polarity (V+ and V-).

Operation:

1. Power on the switching power supply using the AC/N and AC/L terminals.
2. Monitor the load current to ensure it stays within the specified range for each model.

Safety Precautions:

1. Do not exceed the maximum current and voltage ratings to prevent damage.
2. Keep the power supply away from moisture and high temperatures to ensure proper operation.

FAQ:

- **Q: What should I do if the power supply overheats?**

A: Ensure proper ventilation around the power supply and reduce the load if necessary to prevent overheating.

- **Q: Can I use this power supply for LED lighting applications?**

A: This product is not intended for LED lighting luminaire applications in the EU. Refer to the LPF/NPF/XLG series for such purposes.

User's Manual



GTIN CODE

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

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 fixtures or appliances (such as LED Decoration or Advertisement devices) (Note.10)
- 2 years warranty.



SPECIFICATION

MODEL			APV-35-5	APV-35-12	APV-35-15		APV-35-24	APV-35-36
OUT PUT	DC VOLTAGE		5V	12V	15V		24V	36V
	RATED CURRENT		5A	3A	2.4A		1.5A	1A
	CURRENT RANGE		0 ~ 5A	0 ~ 3A	0 ~ 2.4A		0 ~ 1.5A	0 ~ 1A
	RATED POWER		25W	36W	36W		36W	36W
	RIPPLE & NOISE (max.) Note.2		120mVp-p	150mVp-p	150mVp-p		180mVp-p	180mVp-p
	VOLTAGE TOLERANCE Note.3		±5.0%					
	LINE REGULATION		±1.0%					
	LOAD REGULATION		±2.0%					
	SETUP, RISE TIME	Note. 6	1500ms, 40ms / 230VAC 1500ms,40ms / 115VAC at full load					
	HOLD UP TIME (Typ.)		20ms/230VAC 12ms/115VAC at full load					
INP UT	VOLTAGE RANGE	Note. 4	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)		76.5%	83%	84%		84%	85%
	AC CURRENT		0.5A/230VAC 0.75A/115VAC					
	INRUSH CURRENT(Typ.)		COLD START 45A(twidth=440μs measured at 50% Ipeak) at 230VAC					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		6 units (circuit breaker of type B) / 10 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT		0.25mA / 240VAC					
	OVERLOAD		110%~160% rated output power					

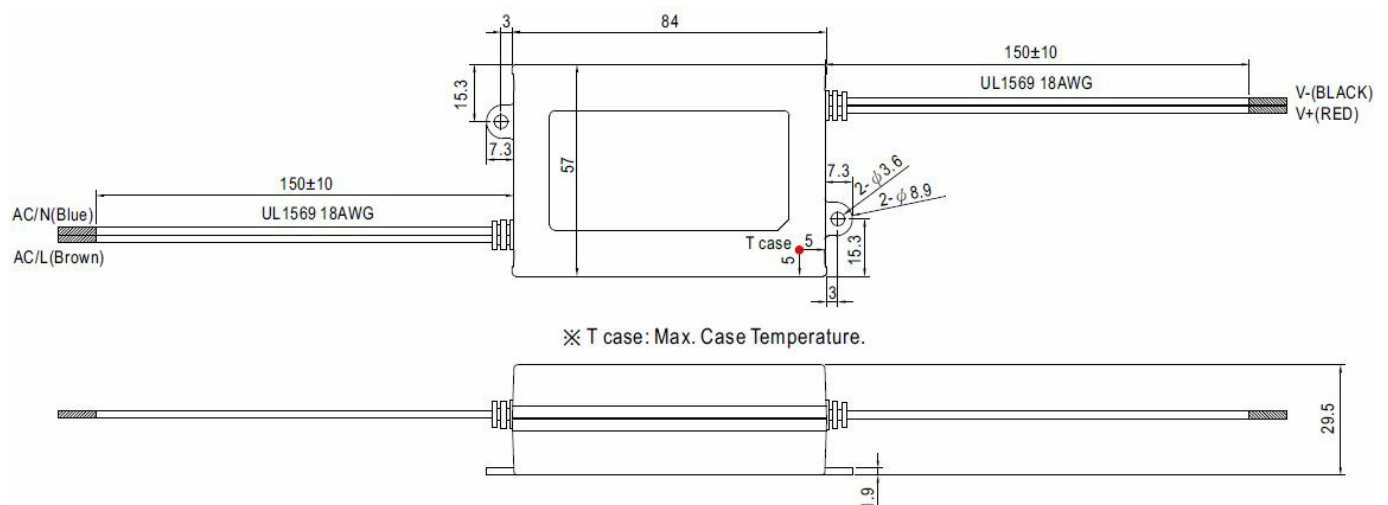
PRO TEC TION		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	OVERVOLTAGE	5.75 ~ 6.95V	13.8 ~ 16.2V	17.25 ~ 21V	27 ~ 32.4V	41.4 ~ 48.6V
		Protection type: Shut down o/p voltage, re-power on to recover				
ENV IRO NM ENT	WORKING TEMP.	-30 ~ 70°C(Refer to “Derating 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, and 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°C/ 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); 600.8K hrs min.	MIL-HDBK-217F (25°C)			
	DIMENSION	84*57*29.5mm (L*W*H)				
	PACKING	0.18Kg; 72pcs / 14Kg/ 0.92CUFT				

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 the EMC Directive on the complete installation. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)
 6. Length of set up time is measured at the first cold start. Turning ON/OFF the power supply may lead to an increase in 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 altitudes higher than 2000m(6500ft).
 8. Products sourced from the Americas regions may not have the ENEC/BIS/CCC logo. Please contact your MEAN WELL sales for more information.
 9. For any application note and IP waterproof function installation caution, please refer to our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
 10. This product is not intended for LED lighting luminaire applications in the EU. (In the EU the LPF/NPF/XLG series are recommended.)
- ※ Product Liability Disclaimer: For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>.

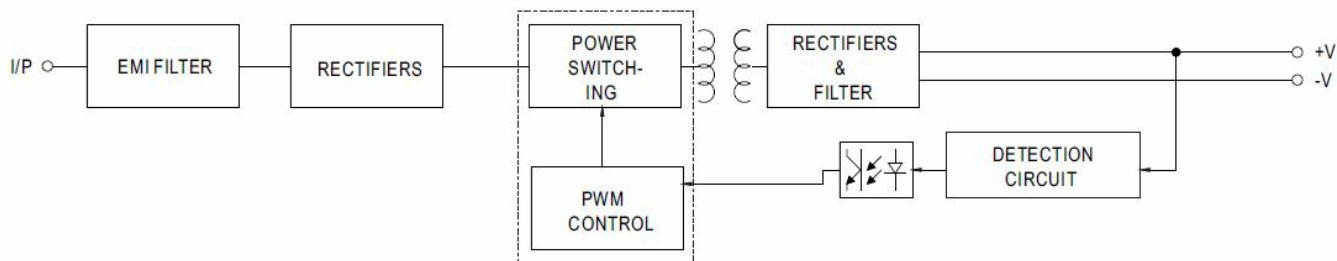
Mechanical Specification

Case No.PCD16A Unit: mm

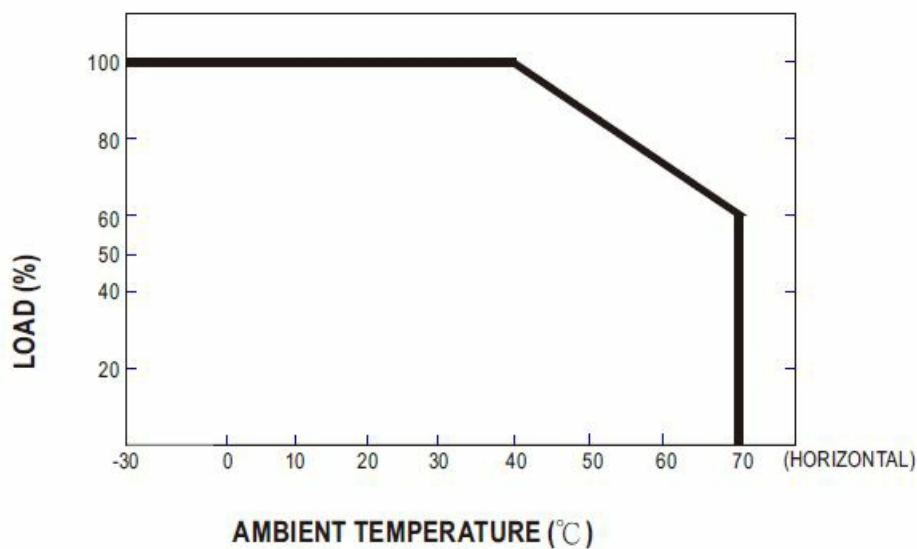


Block Diagram

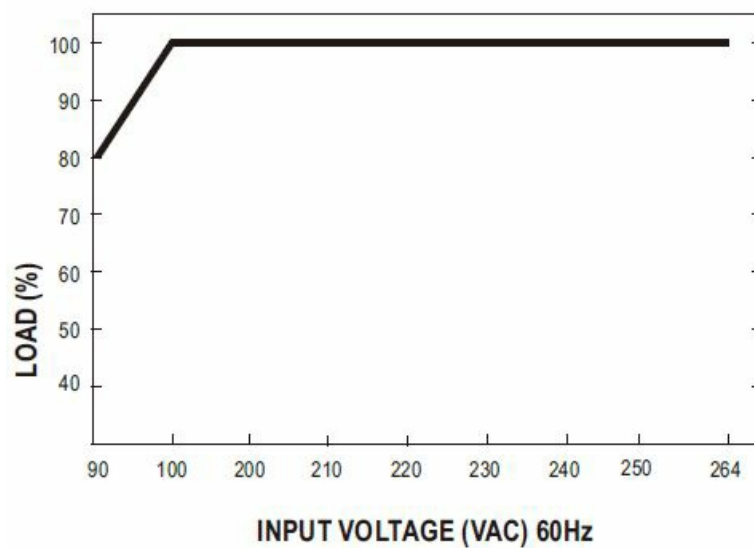
fosc: 60KHz



Derating Curve



Static Characteristics





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References

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