25W Single Output Switching Power Supply APC-25 series



Features :

- Constant current mode power supply
- Universal AC input / Full range
- Withstand 300VAC Surge input for 5 seconds
- Protections:Short circuit / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- IP42 design
- 100% full load burn-in test
- Display devices for decorative & advertising accessories (Note.6)
- Low cost / High reliability
- 2 years warranty

User's Manual Click Me

GTIN CODE

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

SPECIFICATION

EAC IS 15885(Part 2/Sec13) (except for APC-25-350) (only for APC-25-500) c US (only for APC-25-700&1050) IP42 LPS (except for APC-25-350)

MODEL		APC-25-350	APC-25-500	APC-25-700	APC-25-1050
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA
	DC VOLTAGE RANGE	25~70V	15~50V	11~36V	9~24V
	RATED POWER	24.5W	25.2W	25.2W	25.2W
	CURRENT RIPPLE	5.0%			
	CURRENT ACCURACY	±8.0%			
	SETUP, RISE TIME	1500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load			
	HOLD UP TIME (Typ.)	20ms/230VAC 12ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.2	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY(Typ.)	83%	83%	83%	83%
	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 VOLTAGE	76 ~ 94V	55 ~ 68V	41 ~ 49V	27 ~ 35V
		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	±0.2%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL8750 (except for APC-25-350), CSA-C22.2 No. 250.0-13 (only for APC-25-700&1050), BIS IS15885(except for APC-25-350), 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	4955.9K hrs min. Telcordia SR-332 (Bellcore) ; 504.9K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	84*57*29.5(L*W*H)			
	PACKING	0.13Kg; 72pcs/10.4Kg/0.92CUFT			

NOTE

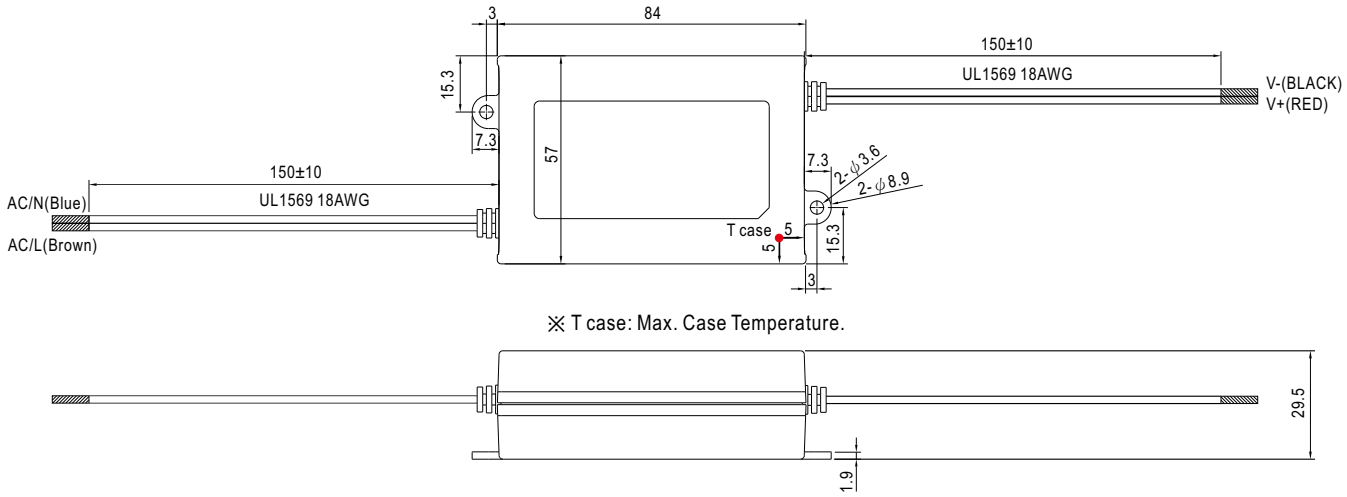
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Derating may be needed under low input voltage. Please check the static characteristic for more details.
3. The power supply is considered as a component that will be operated in combination 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)
4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
5. 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
6. 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.)

※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

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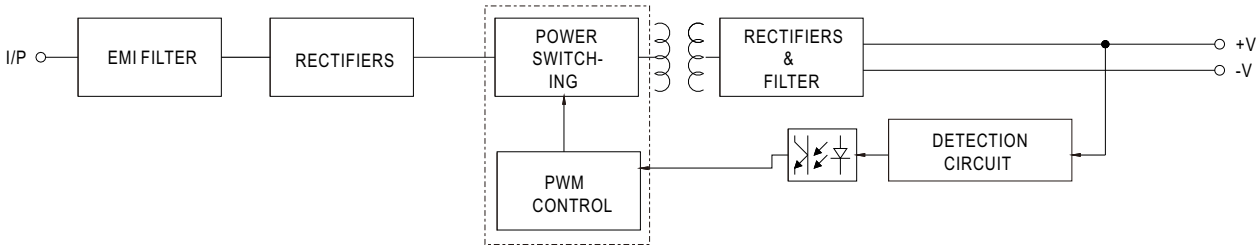
■ Mechanical Specification

Case No.PCD16A Unit:mm Tolerance:±1

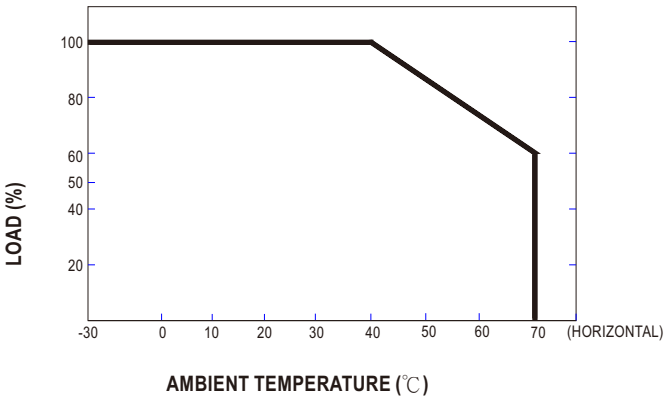


■ Block Diagram

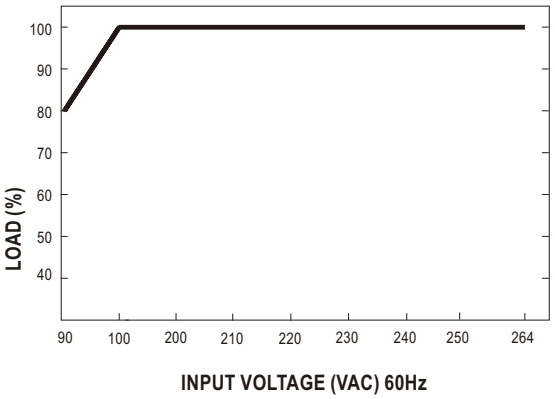
fosc : 60KHz



■ Derating Curve



■ Static Characteristics



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