



## 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
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.8)
- Low cost / High reliability
- 2 years warranty

User's Manual



## SPECIFICATION

IS 15885(Part 2/Sec13)  
R-41027766

(only for APC-25-500)



(only for APC-25-700&amp;1050)

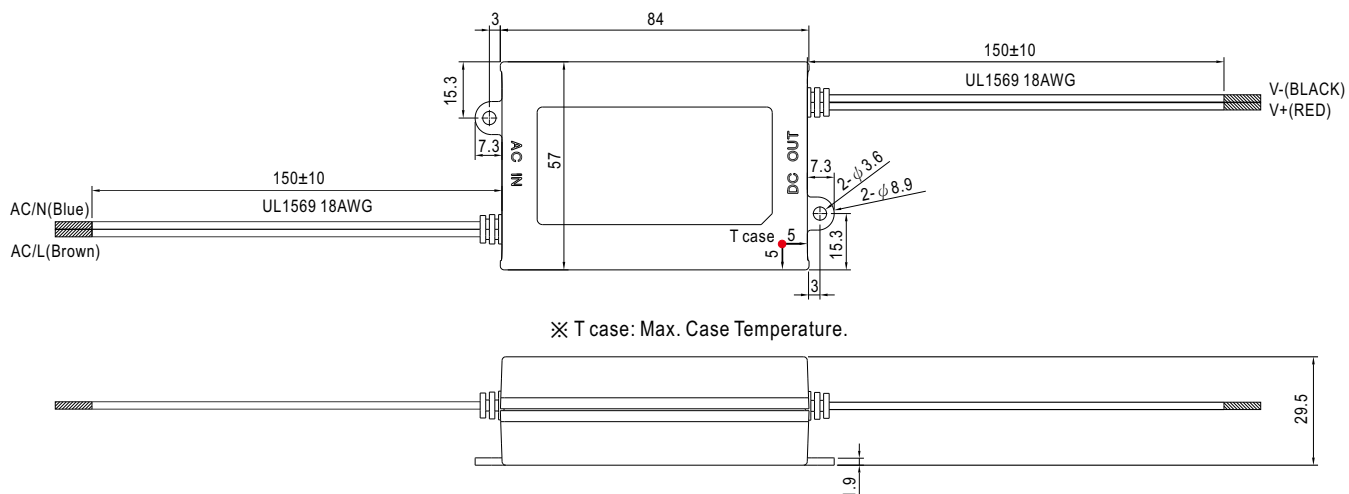
IP42 LPS (except for APC-25-350)



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	
	RIPPLE & NOISE (max.) Note.2	300mVp-p		300mVp-p		300mVp-p		300mVp-p	
	VOLTAGE TOLERANCE Note.3	±5.0%							
	CURRENT ACCURACY	±8.0%							
	LINE REGULATION	±1.0%							
	LOAD REGULATION	±3.0%							
	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.4	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, EAC TP TC 004, IP42 approved; design refer to BS EN/EN 62368-1							
	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/EN55024,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 020							
OTHERS	MTBF	518.9K 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. 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 characteristic 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. 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). 7. 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 8. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) 9. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

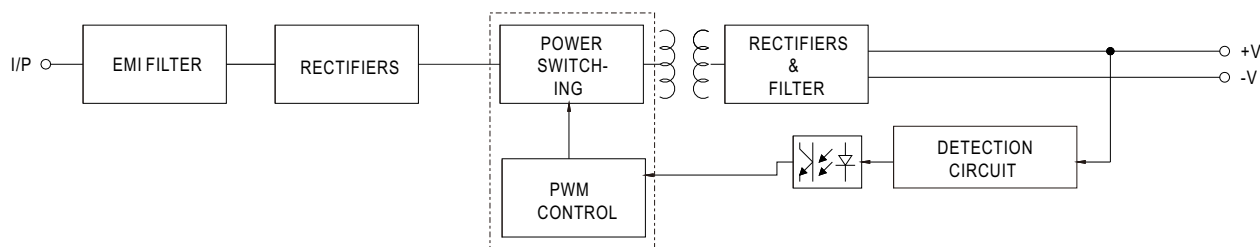
## ■ Mechanical Specification

Case No.PCD16A      Unit:mm

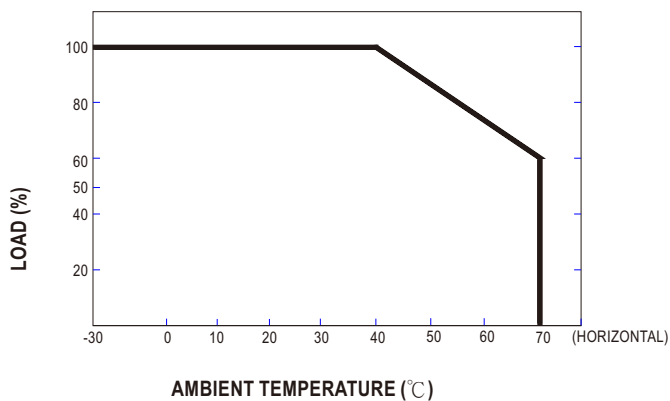


### ■ Block Diagram

fosc : 60KHz



### Derating Curve



## ■ Static Characteristics

