



## 35W Single Output Switching Power Supply

## APC-35 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

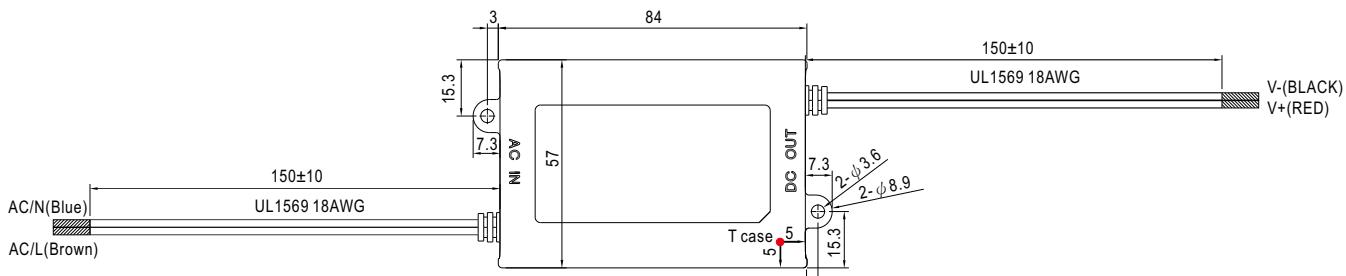


**SPECIFICATION** IP42  LPS (except for APC-35-350,APC-35-500) IS 15885(Part 2/Sec13)  (only for APC-35-700)  (only for APC-35-1050) EAC CE UK CA

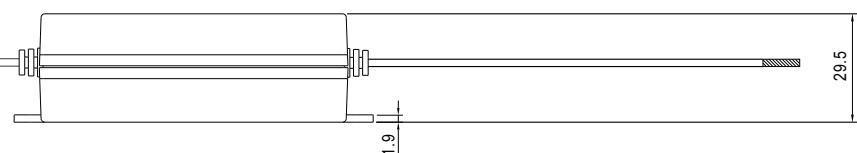
MODEL	APC-35-350	APC-35-500	APC-35-700	APC-35-1050
OUTPUT	<b>RATED CURRENT</b> 350mA	500mA	700mA	1050mA
	<b>DC VOLTAGE RANGE</b> 28~100V	25~70V	15~50V	11~33V
	<b>RATED POWER</b> 35W	35W	35W	34.7W
	<b>RIPPLE &amp; NOISE (max.) Note.2</b> 350mVp-p	350mVp-p	350mVp-p	350mVp-p
	<b>VOLTAGE TOLERANCE Note.3</b> $\pm 5.0\%$			
	<b>CURRENT ACCURACY</b> $\pm 8.0\%$			
INPUT	<b>LINE REGULATION</b> $\pm 1.0\%$			
	<b>LOAD REGULATION</b> $\pm 3.0\%$			
	<b>SETUP, RISE TIME</b> 1500ms, 40ms / 230VAC 1500ms, 40ms / 115VAC at full load			
	<b>HOLD UP TIME (Typ.)</b> 20ms/230VAC 12ms/115VAC at full load			
	<b>VOLTAGE RANGE Note.4</b> 90 ~ 264VAC 127 ~ 370VDC			
	<b>FREQUENCY RANGE</b> 47 ~ 63Hz			
PROTECTION	<b>EFFICIENCY(Typ.)</b> 84%	84%	84%	84%
	<b>AC CURRENT</b> 0.5A/230VAC;0.75A/115VAC			
	<b>INRUSH CURRENT(Typ.)</b> COLD START 45A(twidth=490 $\mu$ s measured at 50% Ipeak) at 230VAC			
	<b>MAX. No. of PSUs on 16A CIRCUIT BREAKER</b> 5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC			
	<b>LEAKAGE CURRENT</b> 0.25mA / 240VAC			
	<b>OVER VOLTAGE</b> 110 ~ 130V 77 ~ 91V 55 ~ 65V 36 ~ 43V			
ENVIRONMENT	Protection type : Shut down o/p voltage, re-power on to recover			
	<b>WORKING TEMP.</b> -30 ~ 70°C (Refer to "Derating Curve")			
	<b>WORKING HUMIDITY</b> 20 ~ 90% RH non-condensing			
	<b>STORAGE TEMP., HUMIDITY</b> -40 ~ +80°C, 10 ~ 95% RH			
	<b>TEMP. COEFFICIENT</b> $\pm 0.2\%/\text{°C}$ (0 ~ 50°C)			
SAFETY & EMC (Note 5)	<b>VIBRATION</b> 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	<b>SAFETY STANDARDS</b> UL8750 (only for APC-35-700&1050), CSA-C22.2 No. 250.0-13 (only for APC-35-1050), BIS IS15885, EAC TP TC 004, IP42 approved; design refer to BS EN/EN 62368-1			
	<b>WITHSTAND VOLTAGE</b> I/P-O/P:3KVAC			
	<b>ISOLATION RESISTANCE</b> I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH			
OTHERS	<b>EMC EMISSION</b> Compliance to BS EN/EN55032,BS EN/EN61000-3-2 Class A,BS EN/EN61000-3-3, EAC TP TC 020			
	<b>EMC IMMUNITY</b> 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			
	<b>MTBF</b> 518.9K hrs min. MIL-HDBK-217F (25°C)			
NOTE	<b>DIMENSION</b> 84*57*29.5(L*W*H)			
	<b>PACKING</b> 0.18Kg; 72pcs/14Kg/0.92CUFT			
<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf 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 characteristic 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. 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).</p> <p>7. For any application note and IP water proof function installation caution, please refer our user manual before using.  <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></p> <p>8. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)</p> <p>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.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>				

## ■ Mechanical Specification

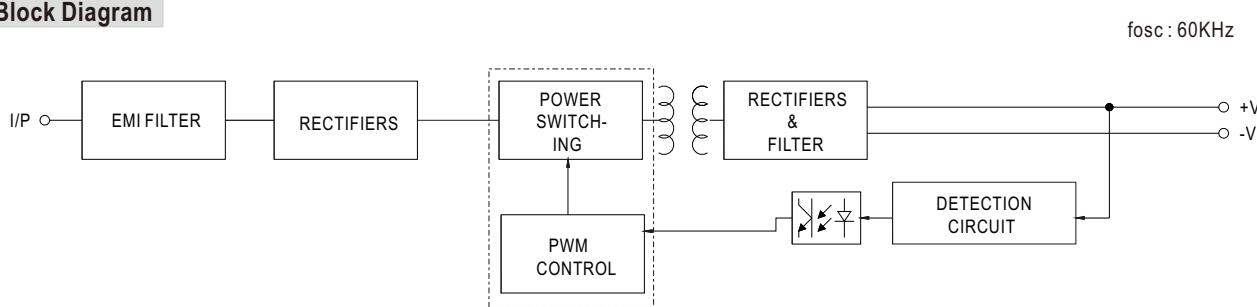
Case No.PCD16A Unit:mm



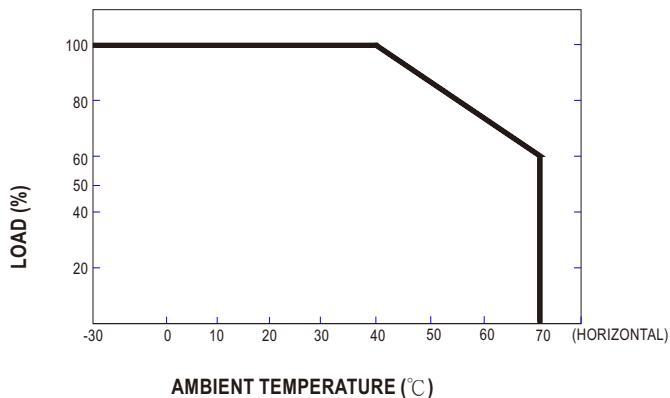
※ T case: Max. Case Temperature.



## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics

