



16W Single Output AC Dimmable LED Power Supply

PCD-16 series



■ Features :

- Work with leading edge and trailing edge dimmers
- 115VAC and 230VAC inputs available
- Fully isolated plastic case
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over temperature
- Built-in active PFC function
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- 3 years warranty



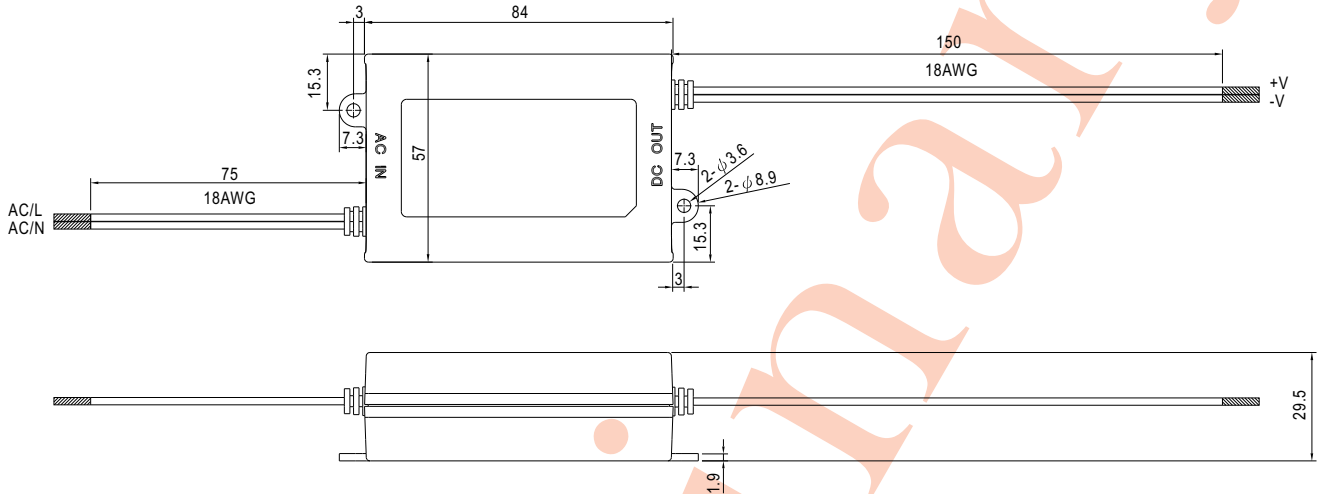
PCD-16-350 **A** A : With AC input 90~ 135VAC.
B : With AC input 180~ 295VAC.

SPECIFICATION

MODEL		PCD-16-350 <input type="checkbox"/>	PCD-16-700 <input type="checkbox"/>	PCD-16-1050 <input type="checkbox"/>	PCD-16-1400 <input type="checkbox"/>
OUTPUT	RATED CURRENT	350mA	700mA	1050mA	1400mA
	OPERATING VOLTAGE RANGE	24 ~ 48V	16 ~ 24V	12 ~ 16V	8 ~ 12V
	CURRENT RANGE	0 ~ 350mA	0 ~ 700mA	0 ~ 1050mA	0 ~ 1400mA
	RATED POWER	16.8W	16.8W	16.8W	16.8W
	RIPPLE & NOISE (max.) Note.1	4.6Vp-p	2.7Vp-p	2.2Vp-p	2Vp-p
	OUTPUT VOLTAGE (max.)	63V	35V	25V	16V
	SETUP TIME	1000ms / 230VAC 2000ms / 115VAC at full load			
INPUT	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	PF≥0.9 at full load and rated output voltage			
	EFFICIENCY(Typ.)	82%	81%	80.5%	80%
	AC CURRENT	0.4A/115VAC 0.2A/230VAC			
	INRUSH CURRENT(max.)	40A/230VAC			
	LEAKAGE CURRENT	<0.5mA / 240VAC			
PROTECTION	OVER CURRENT	95 ~ 110% Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.			
	OVER TEMPERATURE	95℃ ±10℃ (TSW1) detect on heatsink of power transistor			
		Protection type : Shut down o/p voltage, re-power on to recover			
ENVIRONMENT	WORKING TEMP.	-30 ~ +60℃ (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	SAFETY & EMC	SAFETY STANDARDS	UL1310 Class 2, TUV EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V) approved		
WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC			
ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH			
EMI CONDUCTION & RADIATION		Compliance to EN55015 Class B			
HARMONIC CURRENT		Compliance to EN61000-3-2 Class C ; EN61000-3-3			
EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024,EN61547, light industry level, criteria A			
OTHERS		MTBF	Khrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	84*57*29.5mm (L*W*H)			
	PACKING	0.19Kg; 72pcs/14.7Kg/0.75CUFT			
NOTE	1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Direct connecting to LEDs is not suggested for models with "RIPPLE & NOISE" >±10% and using additional drivers is highly recommended.				

Mechanical Specification

Case No. PCD16A Unit: mm



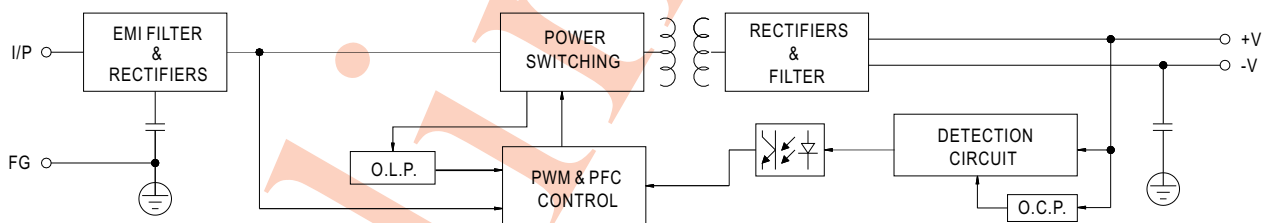
Type A: With AC input 90-135VAC

AC/L	BLACK
AC/N	WHITE

Type B: With AC input 180-295VAC

AC/L	BLUE
AC/N	BROWN

Block Diagram

fosc : 90KHz(115VAC)
120KHz(230VAC)


Derating Curve

