


■ 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


LPS


(for 48V only)



c



US

(except for 48V)

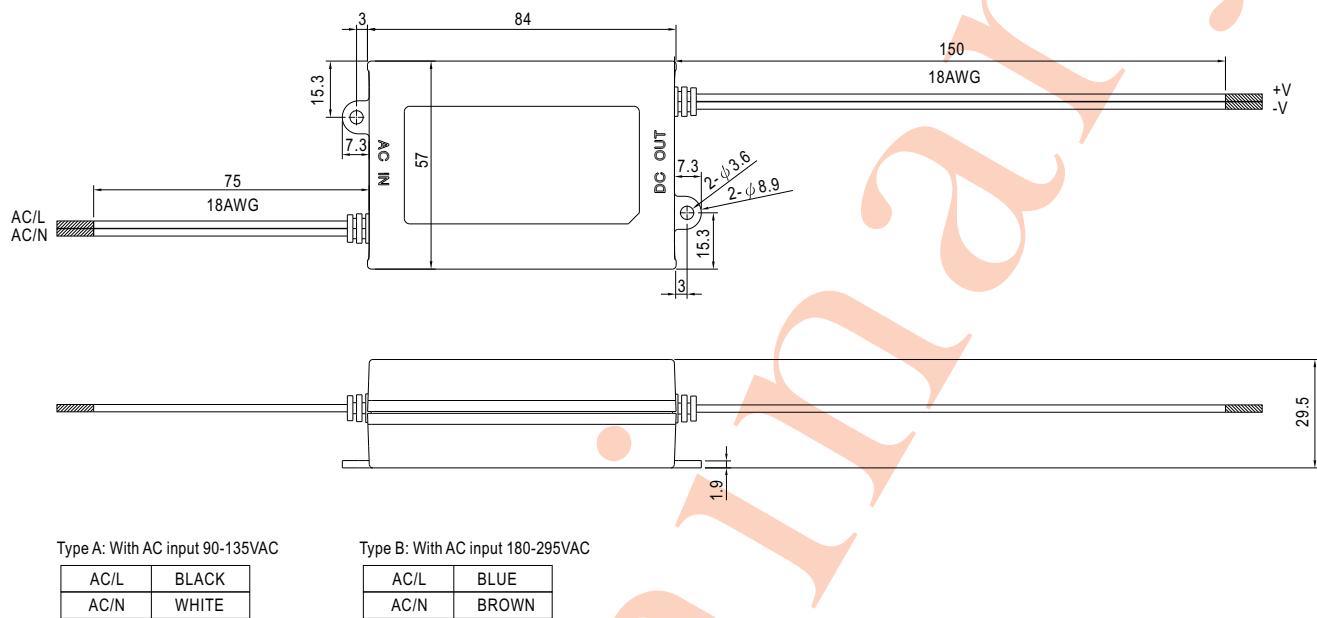

 PCD-16-350 A : With AC input 90~135VAC.
 B : With AC input 180~295VAC.

SPECIFICATION

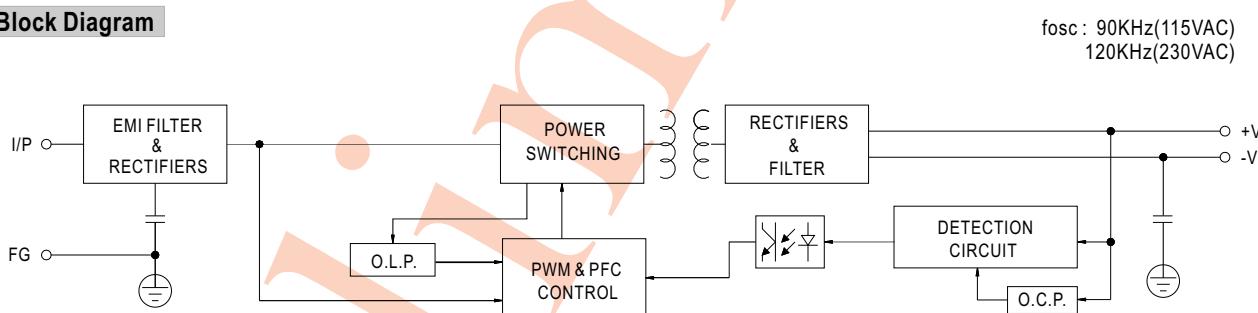
MODEL	PCD-16-350 <input type="checkbox"/>	PCD-16-700 <input type="checkbox"/>	PCD-16-1050 <input type="checkbox"/>	PCD-16-1400 <input type="checkbox"/>	
OUTPUT	RATED CURRENT	350mA	700mA	1050mA	
	OPERATING VOLTAGE RANGE	24~48V	16~24V	12~16V	
	CURRENT RANGE	0~350mA	0~700mA	0~1050mA	
	RATED POWER	16.8W	16.8W	16.8W	
	RIPPLE & NOISE (max.) Note.1	4.6Vp-p	2.7Vp-p	2.2Vp-p	
	OUTPUT VOLTAGE (max.)	63V	35V	25V	
INPUT	SETUP TIME	1000ms / 230VAC 2000ms / 115VAC at full load			
	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			
PROTECTION	LEAKAGE CURRENT	<0.5mA / 240VAC			
	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.			
ENVIRONMENT	OVER TEMPERATURE	95°C $\pm 10^\circ\text{C}$ (TSW1) detect on heatsink of power transistor			
		Protection type : Shut down o/p voltage, re-power on to recover			
	WORKING TEMP.	-30~+60°C (Refer to output load derating curve)			
	WORKING HUMIDITY	20~95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40~+80°C, 10~95% RH			
SAFETY & EMC	TEMP. COEFFICIENT	$\pm 0.03\%/\text{°C}$ (0~50°C)			
	VIBRATION	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	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°C / 70% RH			
OTHERS	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			
NOTE	MTBF	Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	84*57*29.5mm (L*W*H)			
	PACKING	0.19Kg; 72pcs/14.7Kg/0.75CUFT			
		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



■ Block Diagram



■ Derating Curve

