16W Single Output LED Power Supply

PLD-16 series

■ Features :

- 115VAC or 230VAC models available
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class 2 Power Unit
- Class Ⅱ power unit, no FG
- IP42 design
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty

SELV IP42 (for B type only) (for A type only) (for B type only) (for B type only) (for B type only)

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

SPECIFICATION

MODEL			PLD-16-350 ☐	PLD-16-700 ☐	PLD-16-1050 ☐	PLD-16-1400 ☐
OUTPUT	RATED CURRENT		350mA	700mA	1050mA	1400mA
	OPERATING VOLTAGE RANGE		24 ~ 48V	16 ~ 24V	12 ~ 16V	8 ~ 12V
	CURRENT ACCURACY		±5.0%			
	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
	NO LOAD OUTPUT VOLTAGE (max.)		60V	35V	25V	16V
	SETUP TIME		500ms / 230VAC 2000ms / 115VAC at full load			
INPUT	FREQUENCY RANGE		47 ~ 63Hz			
	POWER FACTOR (Typ.)		PF>0.9/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)			
	TOTAL HARMONIC DISTORTION	A series	THD< 20% when output loading≧70% at 115VAC			
		B series	THD< 20% when output loading≧70% at 230VAC input and output loading≧80% at 277VAC input			
	EFFICIENCY (Typ.)	A series	84.5%	84.5%	84%	82.5%
		B series	85.5%	86%	85%	83.5%
	AC CURRENT (Typ.)		0.4A/115VAC 0.2A/230VAC 0.15A/277VAC			
	INRUSH CURRENT(Typ.)		COLD START 20A(twidth=25μs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	A series	58 units (circuit breaker of type B) / 58 units (circuit breaker of type C) at 115VAC			
		B series	128 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT		<0.5mA / 240VAC			
PROTECTION	SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed.			
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover			
ENVIRONMENT	WORKING TEMP.		-30 ~ +50℃ (Refer to "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		UL8750,CSA C22.2 No.250.0-08;ENEC EN 613471-1,EN 61347-2-13 independent, EN62384(for B type only), EAC TP TC 004, IP42 approved			
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH			
	EMC EMISSION		Compliance to EN55015 (B type only), EN61000-3-2 Class C ; EN61000-3-3, FCC part 18 non-consumer equipment(A type only), EAC TP TC 020			
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A, EAC TP TC 020			
OTHERS	MTBF		906.5Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION		84*57*29.5mm (L*W*H)			
	PACKING		0.19Kg; 72pcs/14.7Kg/0.92CUFT			

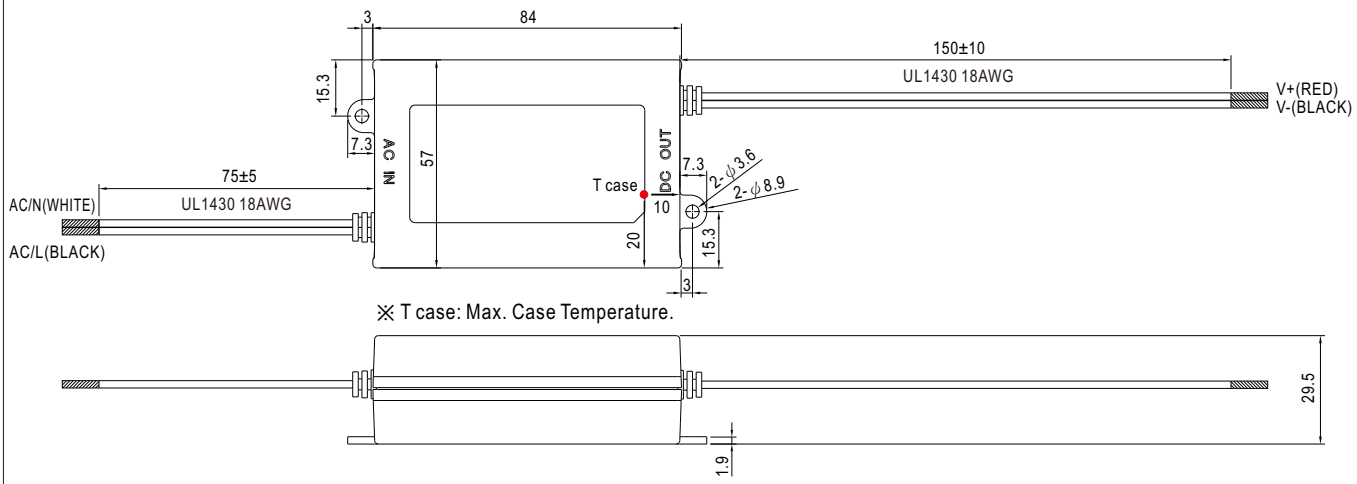
NOTE

1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
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

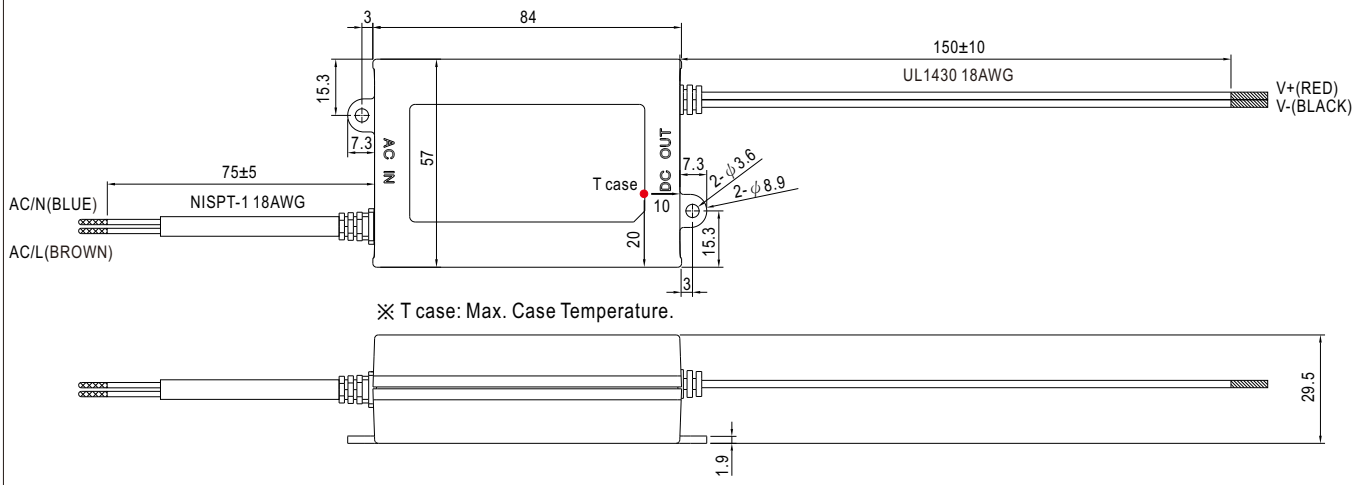
■ Mechanical Specification

Case No.PCD16A Unit:mm

A Type:(PLD-16-_A)

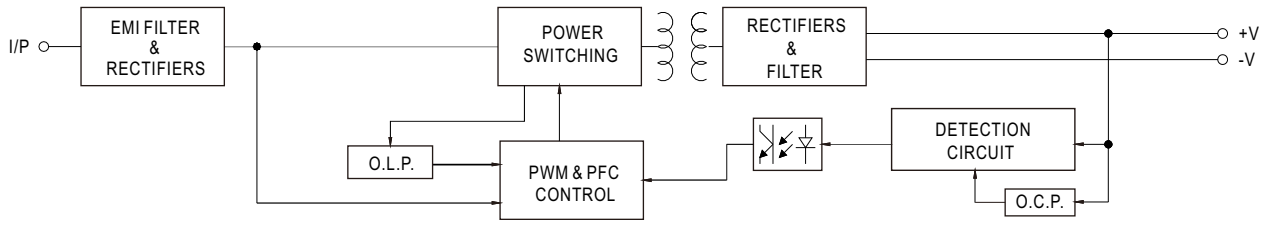


B Type:(PLD-16-_B)

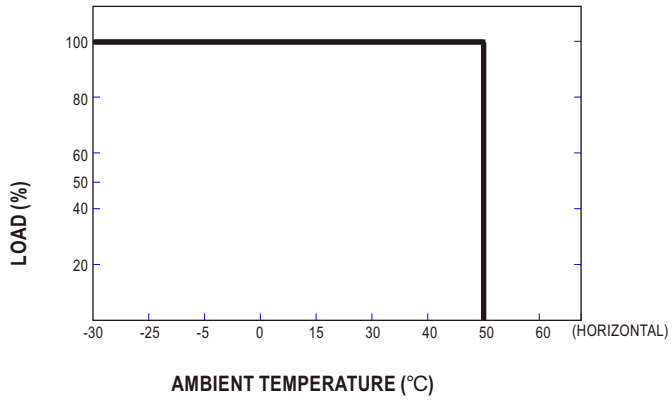


■ Block Diagram

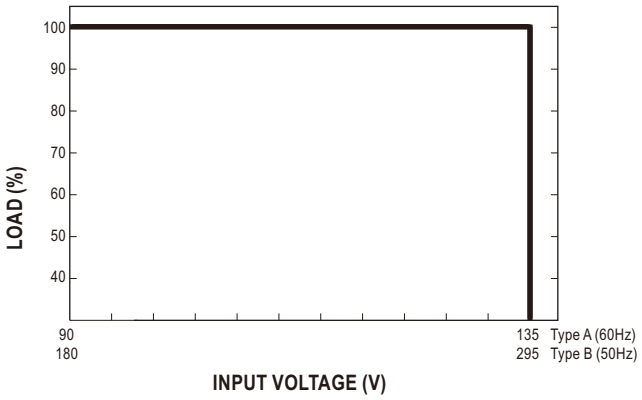
fosc : 90KHz(115VAC)
120KHz(230VAC)



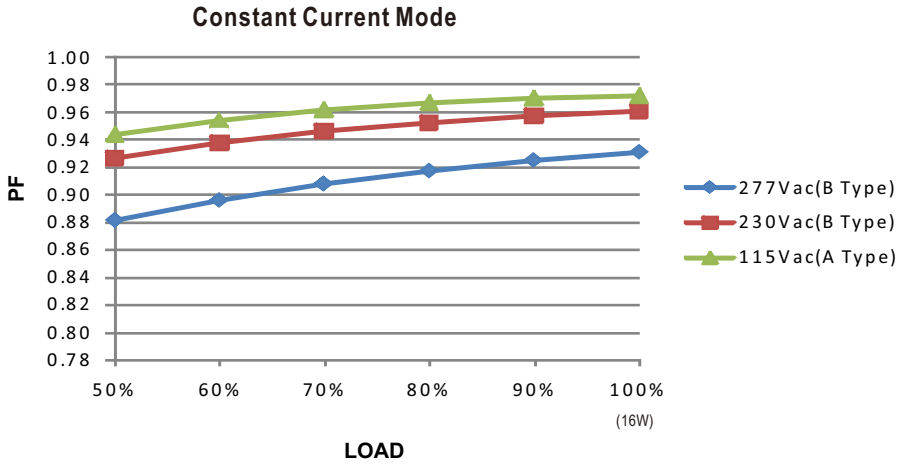
■ Derating Curve



■ Static Characteristics

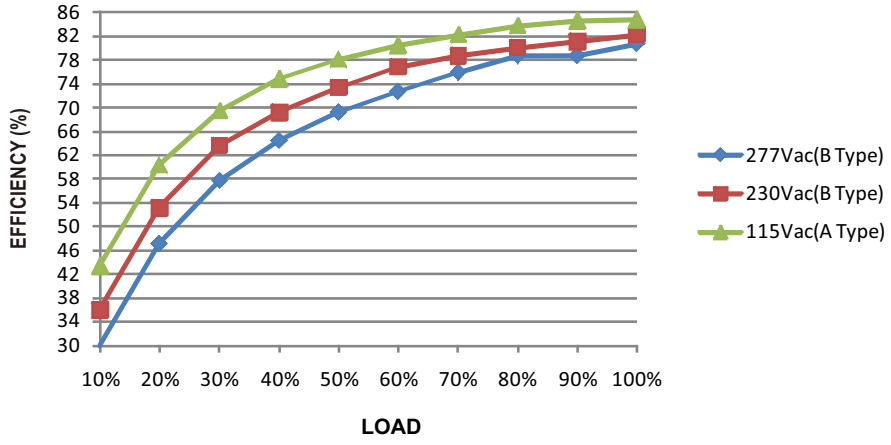


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (PLD-16-350)

PLD-16 series possess superior working efficiency that up to 85.5% can be reached in field applications.



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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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