



MEAN WELL PLD-16 Series 16W Single Output LED Power Supply Owner's Manual

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MEAN WELL PLD-16 Series 16W Single Output LED Power Supply



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

Specification

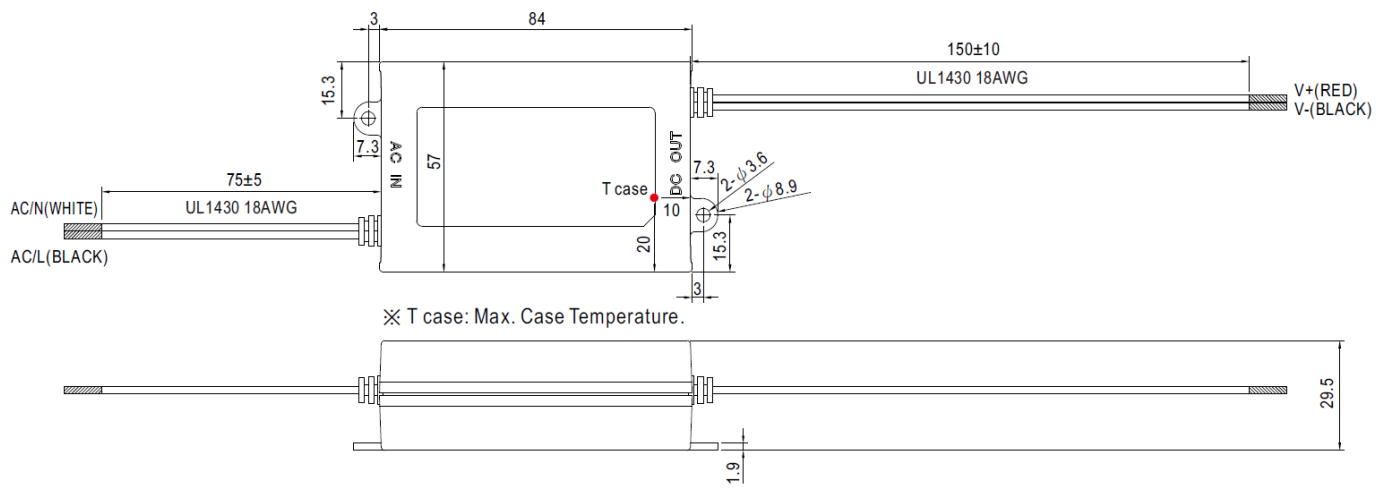
MODEL		PLD-16-350	PLD-16-700	PLD-16-1050	PLD-16-1400
OUTPUT	RATED CURRENT	350mA	700mA	1050mA	1400mA
	OPERATING VOLTAGE RANGE	24 ~ 48V	16 ~ 24V	12 ~ 16V	8 ~ 12V
	CURRENT ACCURACY	±5.0%			
	RATED POWER	16.8W	16.8W	16.8W	16.8W
	RIPPLE & NOISE (max.) Note.1	4.6Vp-p	2.7Vp-p	2.2Vp-p	2Vp-p

	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 \geq 70% at 115VAC			
		B series	THD< 20% when output loading \geq 70% at 230VAC input and output loading \geq 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=25 μ s 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°C (Refer to “Derating Curve”)			
	WORKING HUMIDITY		20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT		\pm 0.03%/°C (0 ~ 50°C)			

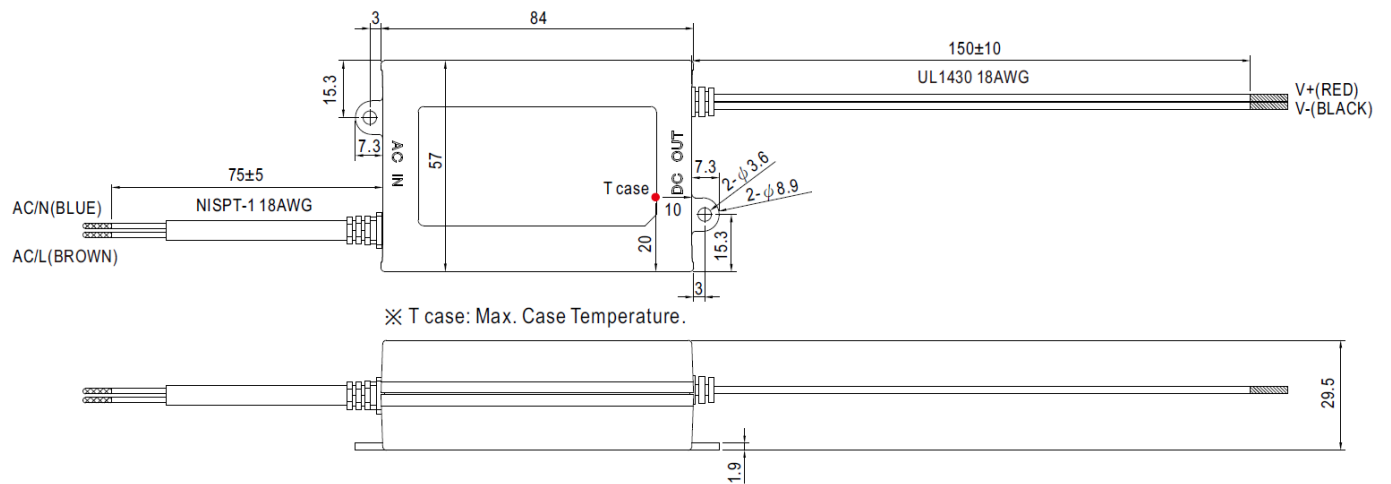
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL8750,CSA C22.2 No.250.0-08;ENEC BS EN/EN 613471-1,BS EN/EN 61347-2-13 independent, BS EN/EN62384(for B type only), EAC TP TC 004, IP42 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to BS EN/EN55015 (B type only), BS EN/EN61000-3-2 Class C ; BS EN/EN61000-3-3, FCC part 18 non-consumer equipment(A type only), EAC TP TC 020
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level, EAC TP TC 020
OTHERS	MTBF	6807.7K hrs min. Telcordia SR-332 (Bellcore) ; 872.4Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	84*57*29.5mm (L*W*H)
	PACKING	0.19Kg; 72pcs/14.7Kg/0.92CUFT
Note	<p>1. Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1uf & 47ut parallel capacitor.</p> <p>2. Direct connecting to LEDS IS Suggested, but is not suitable for using additional drivers.</p> <p>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.</p> <p>4. The ambient temperature derating of 3.5 C/1000m with fanless models and of 5C/1000m with fan models for operating altitude higher than 2000m(6500ft)</p> <p>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 x Product Liability</p> <p>Disclaimer: For detailed information. please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

Mechanical Specification

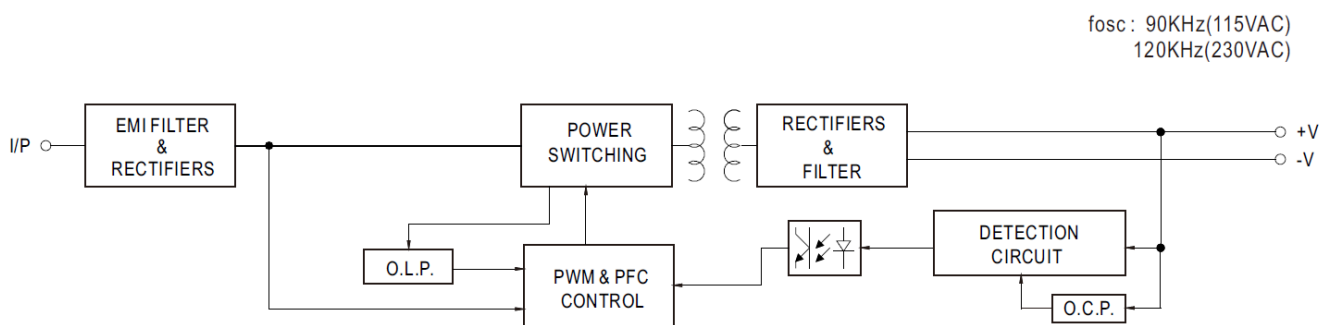
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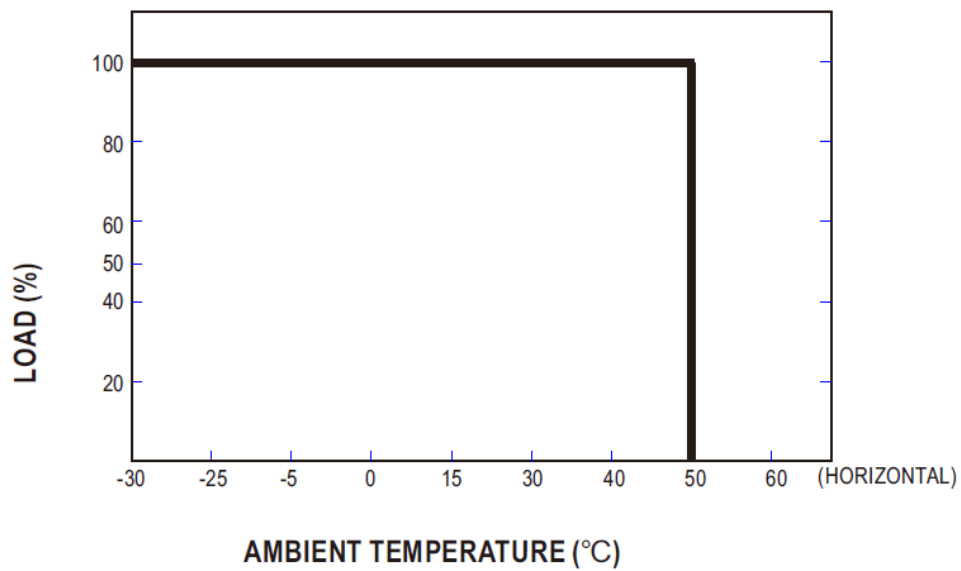
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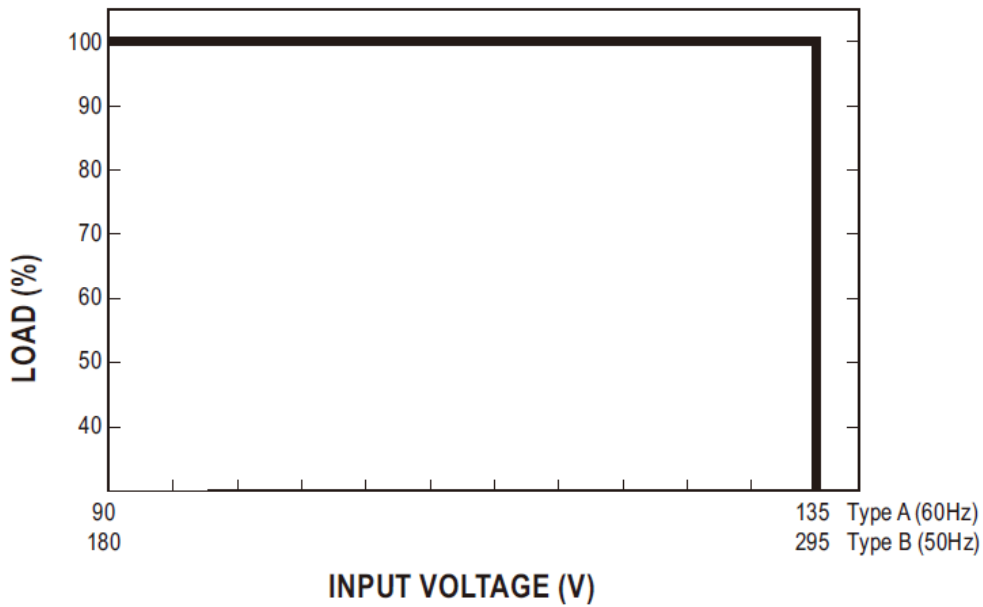
Block Diagram



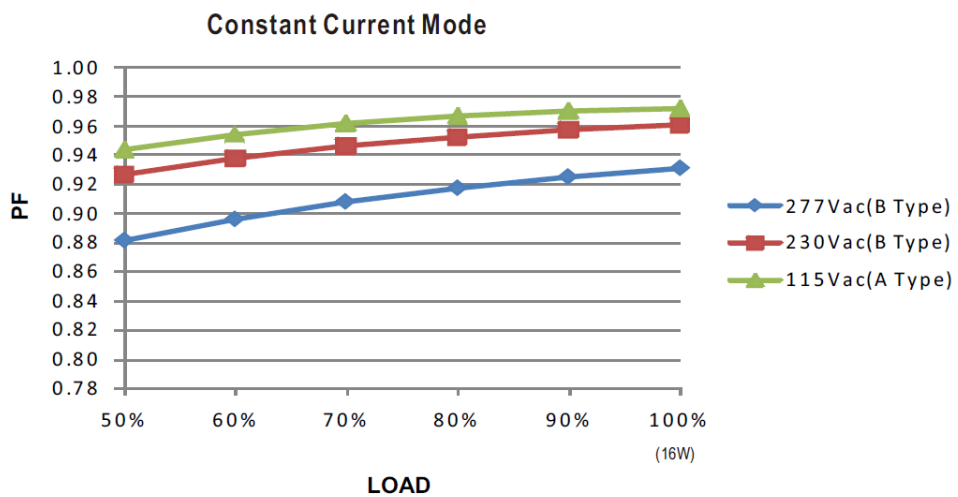
Derating Curve



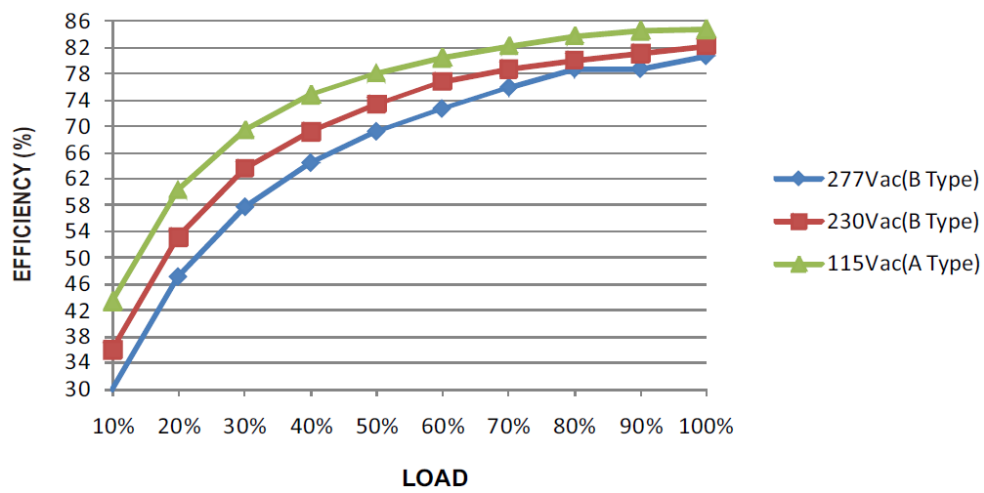
Static Characteristics



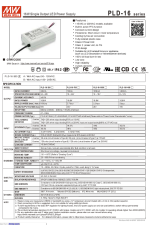
Power Factor Characteristic



EFFICIENCY vs LOAD (PLD-16-350)



Documents / Resources



[MEAN WELL PLD-16 Series 16W Single Output LED Power Supply](#) [pdf] Owner's Manual
PLD-16 Series, 16W Single Output LED Power Supply, PLD-16 Series 16W Single Output LED Power Supply, Output LED Power Supply, LED Power Supply, Power Supply