



60W LED Driver power supply < PLD-60



■ Features :

- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- IP42 design
- Class II power unit, no FG
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty



SPECIFICATION

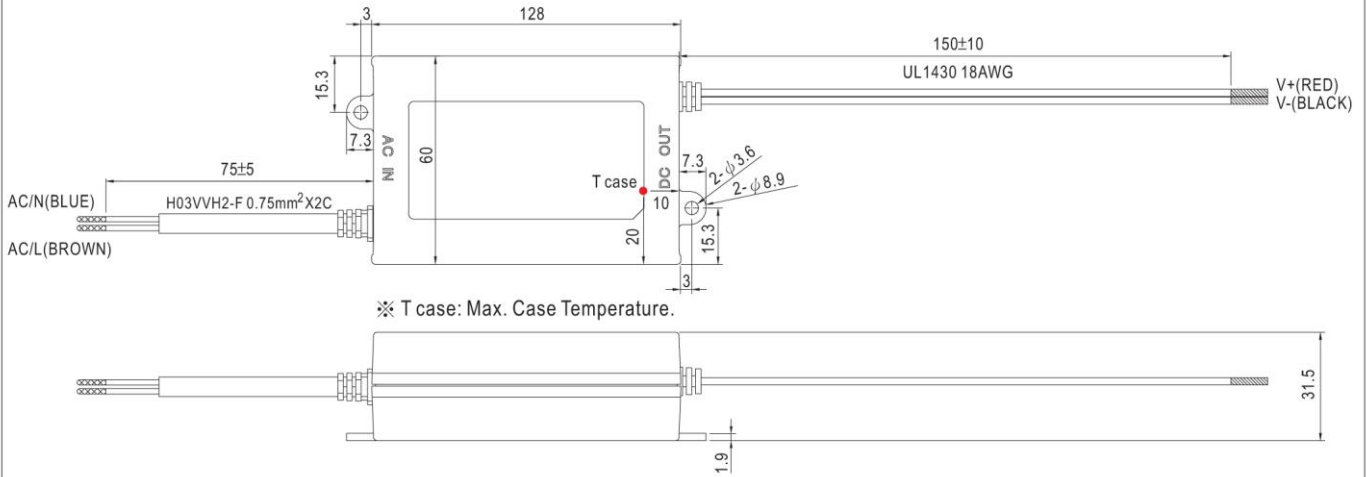
MODEL	PLD-60-500B	PLD-60-700B	PLD-60-1050B	PLD-60-1400B	PLD-60-1750B	PLD-60-2000B	PLD-60-2400B		
OUTPUT	RATED CURRENT		500mA	700mA	1050mA	1400mA	1750mA	2000mA	2400mA
	OPERATING VOLTAGE RANGE		70 ~ 108V	50 ~ 86V	34 ~ 57V	25 ~ 43V	20 ~ 34V	18 ~ 30V	15 ~ 25V
	CURRENT ACCURACY		±5.0%						
	RATED POWER		54W	60.2W	59.85W	60.2W	59.5W	60W	60W
	RIPPLE & NOISE (max.) Note.1		10.2Vp-p	5.6Vp-p	3.8Vp-p	3.4Vp-p	3.3Vp-p	2.4Vp-p	2.4Vp-p
	NO LOAD OUTPUT VOLTAGE (max.)		118V	100V	63V	50V	50V	35V	35V
	SETUP TIME		500ms / 230VAC at full load						
INPUT	VOLTAGE RANGE		180~295VAC						
	FREQUENCY RANGE		47 ~ 63Hz						
	POWER FACTOR (Typ.)		PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	TOTAL HARMONIC DISTORTION		THD< 20% when output loading≥60%(PLD-60-500B loading≥65%) at 230VAC input and output loading≥75% at 277VAC input						
	EFFICIENCY (Typ.)		88%	87%	87%	86%	86%	86%	85%
	AC CURRENT (Typ.)		0.6A/230VAC		0.5A/277VAC				
	INRUSH CURRENT(Typ.)		COLD START 25A (twidh=60μs measured at 50% Ipeak) at 230VAC						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC						
PROTECTION	SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed.						
	OVER TEMPERATURE		Shut down o/p voltage, auto-recovery						
ENVIRONMENT	WORKING TEMP.		-30 ~ +45°C (Refer to "Derating Curve")						
	WORKING HUMIDITY		20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT		±0.03%/°C (0 ~ 50°C)						
SAFETY & EMC	VIBRATION		10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS		ENEC EN61347-1, EN61347-2-13 independent, EN62384, 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 EN55015, EN61000-3-2 Class C ; EN61000-3-3						
OTHERS	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(Surge 2KV), criteria B						
	MTBF		458.852Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION		128*60*31.5mm (L*W*H)						
NOTE	PACKING		0.34Kg;30pcs/11.2Kg/0.58CUFT						
	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.								



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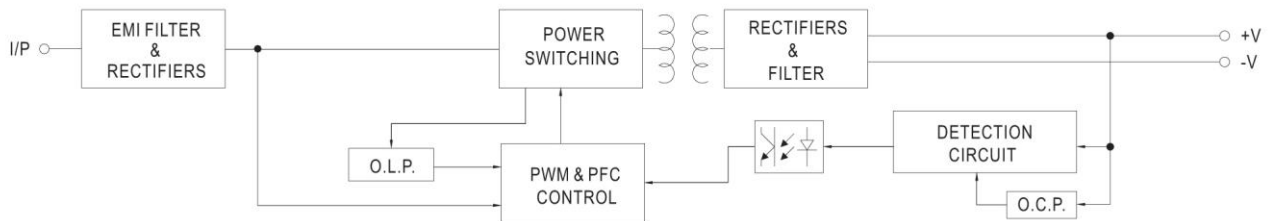
Mechanical Specification

Case No. Unit:mm

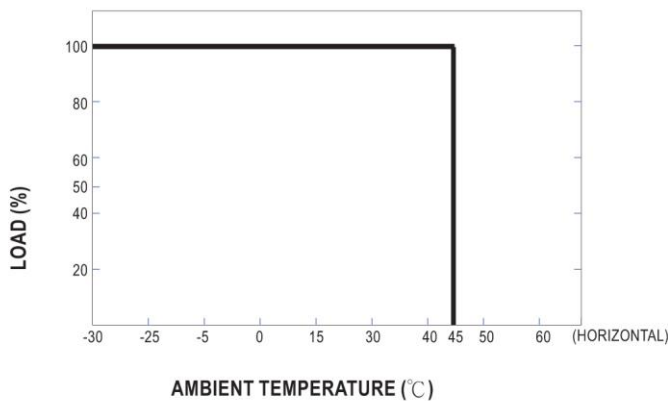


Block Diagram

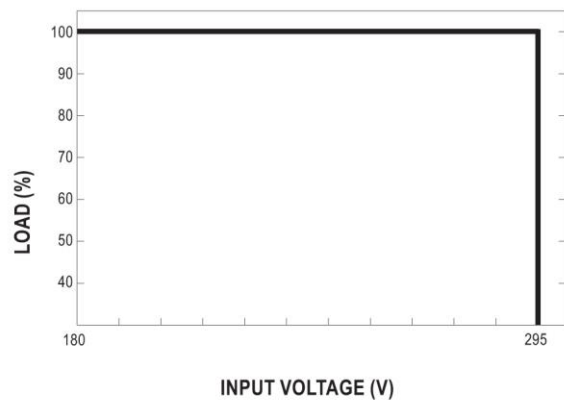
fosc :60KHz(230VAC)



Derating Curve



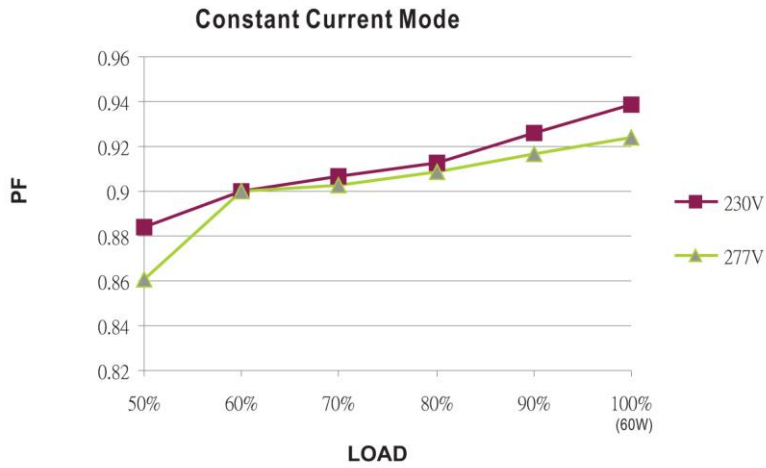
Static Characteristics





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Power Factor Characteristic



EFFICIENCY vs LOAD (PLD-60-500B)

PLD-60 series possess superior working efficiency that up to 88% can be reached in field applications.

