

60W Single Output LED Power Supply

PLN-60 series



Features :

- Universal AC input / Full range (up to 295VAC)
- High efficiency up to 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- Pass LPS
- Class 2 power unit
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications (Note.2)
- Suitable for dry / damp locations
- · Compliance to worldwide safety regulations for lighting
- 2 years warranty

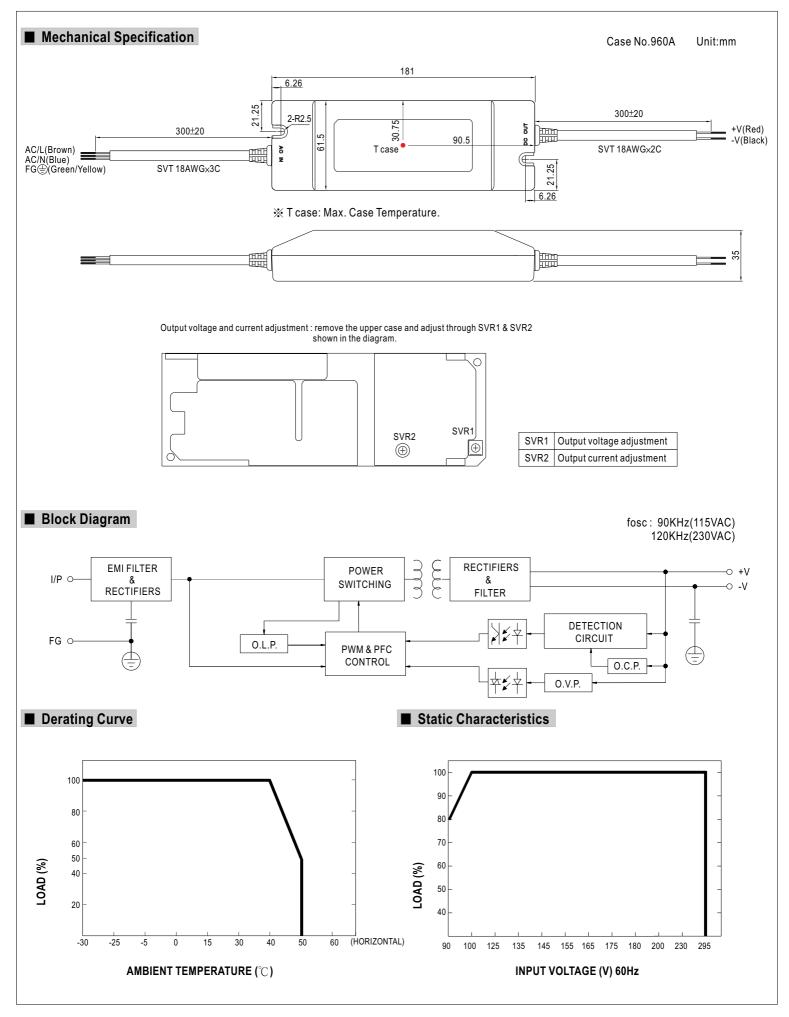
	\bigcirc	F	110	\bigvee	\mathbf{W}	SELV	LPS	(for 48V only)	c TL US (e	except for 48V) IP64	P	A BALANT GEPRUIT Standards APPROVED	CE	
ICATION														

SF	ΡE	C	FI	C,	AT	1

88%	36V 25.2 ~ 36V 1.7A 0 ~ 1.7A 61.2W 3.6Vp-p 32.5 ~ 39V Factor Characteristic 89%	48V 33.6~48V 1.3A 0~1.3A 62.4W 4.6Vp-p 43.6~51.8V							
2.3A 0~2.3A 62.1W 2.7Vp-p 25~30V se refer to "Power F 88% er fault condition is	1.7A 0~1.7A 61.2W 3.6Vp-p 32.5~39V	1.3A 0~1.3A 62.4W 4.6Vp-p 43.6~51.8V							
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se refer to "Power F 88%	Factor Characteristic	5" curve)							
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88%	89%	,							
er fault condition is		89%							
1	removed								
1	removed								
1	removed								
1	removed								
1	removed								
		95 ~ 110% Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	Hiccup mode, recovers automatically after fault condition is removed.								
31 ~ 35V	41~46V	54 ~ 60V							
Protection type : Shut down o/p voltage, re-power on to recover									
$95^{\circ}C \pm 10^{\circ}C$ (TSW1) detect on heatsink of power transistor									
Protection type : Shut down o/p voltage, recovers automatically after temperature goes down									
-30 ~ +50°C (Refer to "Derating Curve")									
20 ~ 95% RH non-condensing									
±0.03%/°C (0~50°C)									
xes									
	. EN61347-2-13 inc	lependent, CAN/CS							
UL879, UL1310, UL8750, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-13 independent, CAN/CSA C22.2 No. 223-M91(except for 48V), CSA C22.2 No. 250.0-08(except for 48V), IP64, J61347-1, J61347-2-13 approved ; design refer to UL60950-									
I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC									
C / 25°C / 70% RH i5022 (CISPR22) Class B, EN61000-3-2 Class C (≧75% load) ; EN61000-3-3									
Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A									
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PACKING 0.5Kg; 24pcs/13Kg/0.75CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. Output voltage can be adjusted through the SVR1 on the PCB ; limit of output constant current level can be adjusted through the SVR2 on the PCB. 6. Constant current operation region is within 70% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.									
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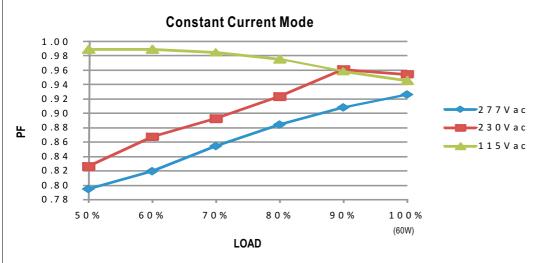


PLN-60 series



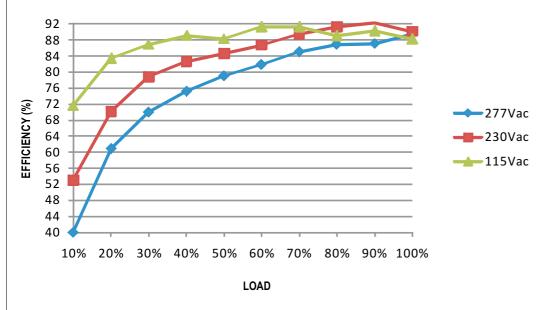


Power Factor Characteristic



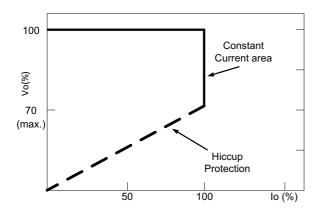
■ EFFICIENCY vs LOAD (48V Model)

PLN-60 series possess superior working efficiency that up to 89% can be reached in field applications.



DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve