

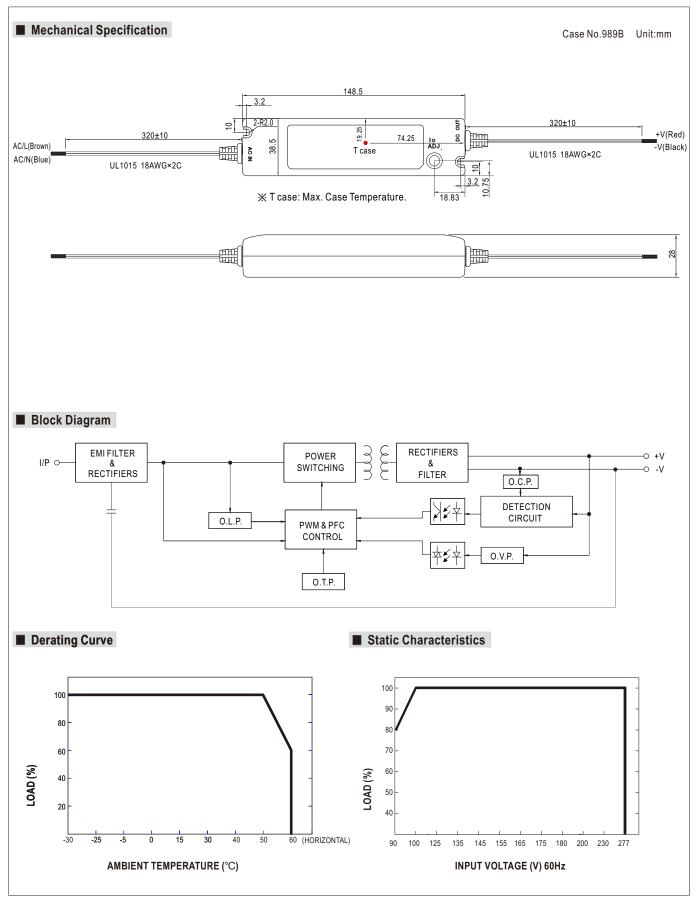


■ Features :

- Universal AC input / Full range(up to 277VAC)
- 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
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- Small and compact size
- ullet Class ${\rm I\hspace{-.1em}I}$ power unit, no FG
- 100% full load burn-in test
- High reliability,low cost
- Suitable for Damp / wet locations
- Suitable for LED lighting and moving sign applications
- 2 years warranty

MODEL		PLN-20-12	PLN-20-18	PLN-20-24	PLN-20-36	PLN-20-48
	DC VOLTAGE	12V	18V	24V	36V	48V
ОИТРИТ	CONSTANT CURRENT REGION Note.5	9 ~ 12V	13.5 ~ 18V	18 ~ 24V	27 ~ 36V	36 ~ 48V
	RATED CURRENT	1.6A	1.1A	0.8A	0.55A	0.42A
	CURRENT RANGE	0 ~ 1.6A	0 ~ 1.1A	0 ~ 0.8A	0 ~ 0.55A	0 ~ 0.42A
	CURRENT ADJ. RANGE	75% ~ 100%				
	RATED POWER	19.2W	19.8W	19.2W	19.8W	20.2W
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p	3.0Vp-p	3.0Vp-p	3.0Vp-p	3.8Vp-p
	VOLTAGE TOLERANCE Note.3	±10%				
	LINE REGULATION	±3.0%				
	LOAD REGULATION	±10%				
	SETUP TIME	500ms / 230VAC 2000ms / 115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	90 ~ 277VAC 127~392	VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF ≥ 0.9 at 75~100% loa	d, 115VAC/230VAC;F	PF ≥ 0.9 at 85~100% load 2	277VAC (Please refer to "Po	ower Factor Characteristic" cur
	EFFICIENCY(Typ.)	80%	81%	82%	83%	83.5%
	AC CURRENT	0.4A/115VAC 0.2A/230VAC 0.15A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 35A(twidth=40µs measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	0.5mA/240VAC				
PROTECTION	OVER CURRENT Note.5	95 ~ 110% Protection type (Constant surrent limiting recovers outproticelly ofter fault condition in removed				
	OUODT OIDOUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.				
	SHORT CIRCUIT	•	19 ~ 22V	27 ~ 34V	41 ~ 46V	54 ~ 60V
	OVER VOLTAGE	14 ~ 16V			41~400	34 ~ 00 V
	OVER TEMPERATURE	Protection type: Shut off o/p voltage, clamping by zener diode Shut down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.06%°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	IEC61347-1, IEC61347-2-13, TUV EN61347-1, EN61347-2-13, UL8750, CSA C22.2 No. 250.0-08, J61347-1, J61347-2-13, IP64 approve				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC / 25°C/ 70%RH				
EMC	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C(≥75% load);EN61000-3-3				
EMIC	EMC IMMUNITY	Compliance to EN33013,EN61000-3-2 Class C(>/3/8/1000/3-3-3				
	MTBF	643.6Khrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	148.5*38.5*28mm (L*W*H)				
	PACKING	0.18Kg; 60pcs/12.8Kg/0				
NOTE	1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed un 5. Please refer to "DRIVING M 6. The power supply is conside complete installation, the fin 7. Direct connecting to LEDs is 8. To fulfill requirements of the	rs NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. se are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. notudes set up tolerance, line regulation and load regulation. y be needed under low input voltage, please check the static characteristic for more details. to "DRIVING METHODS OF LED MODULE". upply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the tallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. cting to LEDs is suggested, but is not suitable for using additional drivers. irements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently to the mains.				

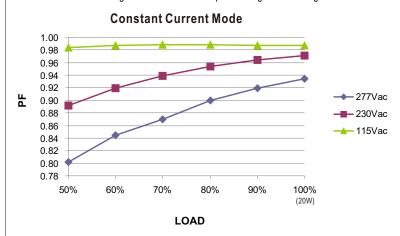






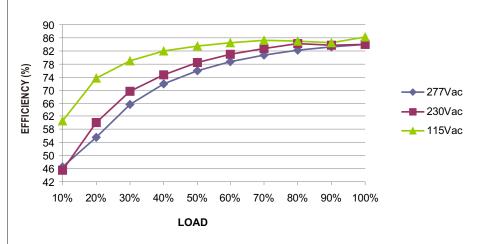
■ Power Factor Characteristic

Power factor will be higher than 0.9 when output loading is 75% or higher.



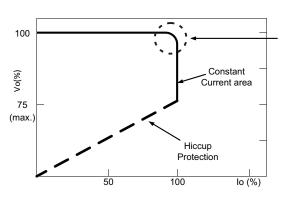
■ EFFICIENCY vs LOAD (48V Model)

PLN-20 series possess superior working efficiency that up to 83.5% 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

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

Mouser Electronics

Authorized Distributor

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Mean Well:

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