

Наличие и актуальные цены на

PLN-100-15

https://www.mean-well.ru/store/PLN-100-15/



GTIN CODE

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100W Single Output Switching Power Supply

PLN-100 series



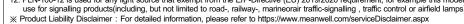
Features :

- Universal AC input / Full range (up to 295VAC)
- High efficiency up to 88.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- Fully isolated plastic case with IP64 level
- Pass LPS
- Class 2 power unit
- 100% full load burn-in test
- High reliability
- · Suitable for LED lighting and moving sign applications
- Suitable for dry / damp locations
 - · Compliance to worldwide safety regulations for lighting

MW Search: https://www.meanwell.com/serviceGTIN.aspx • 2 years warranty

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PECIFIC	ATION	(CCC optiona	,	(for 48V only)	BS EN/EN61347-1,-2-13							
MODEL		PLN-100-12	PLN-100-15	PLN-100-20	PLN-100-24	PLN-100-27	PLN-100-36	PLN-100-48				
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V				
	CONSTANT CURRENT REGION Note.6	9~12V	11.25 ~ 15V	15~20V	18 ~ 24V	20.25 ~ 27V	27~36V	36~48V				
	RATED CURRENT Note.5		5A	4.8A	4A	3.55A	2.65A	2A				
	RATED POWER Note.5		75W	96W	96W	95.85W	95.4W	96W				
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p				
	VOLTAGE ADJ. RANGE (SVR1)		12.8 ~ 15V	17 ~ 20V	20.4 ~ 24V	23 ~ 27V	30.6 ~ 36V	40.8 ~ 48V				
DUTPUT	. ,											
	CURRENT ADJ. RANGE(SVR2)		3.75 ~ 5A	3.6 ~ 4.8A	3~4A	2.6 ~ 3.55A	2~2.65A	1.5~2A				
	VOLTAGE TOLERANCE Note.3		±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%				
	LINE REGULATION	±1.0%										
	LOAD REGULATION											
	SETUP, RISE TIME	500ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load										
	HOLD UP TIME (Typ.)	60ms/230VAC 16ms/115VAC at full load										
	VOLTAGE RANGE Note.4	90~295VAC 127~417VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.95/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)										
	TOTAL HARMONIC DISTORTION	THD< 20% whe	n output loading≧	75% at 115VAC/23	0VAC input and o	utput loading≧75%	6 at 277VAC input					
NPUT	EFFICIENCY (Typ.)	83%	87%	88.5%	88.5%	88%	88%	88.5%				
	AC CURRENT (Typ.)	12V:0.8A/115VAC 0.4A/230VAC 0.3A/277VAC 15V:0.9A/115VAC 0.45A/230VAC 0.35A/277VAC 20V ~ 48V:1.1A/115VAC 0.55A/230VAC 0.45A/277VAC										
	INRUSH CURRENT (Typ.)	COLD START 404(twidth=1030µs measured at 50% lpeak) at 230VAC										
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC										
	OVER CURRENT	95 ~ 102% Protection two: - Constant surrent limiting, receivers automatically offer fault condition is removed										
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed										
ROTECTION	SHORT CIRCOTT	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V				
RUIECTION	OVER VOLTAGE						33 401	52 040				
		Protection type : Shut down and latch off o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	-30 ~ +50°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDARDS Note.7	UL879, UL1310, UL8750, CSA C22.2 No. 207-M89, TUV BS EN/EN61347-1, BS EN/EN61347-2-13 independent, CAN/CSA C22.2 No.223-M91(except for 48V), CAN/CSA C22.2 No. 250.13-12, EAC TP TC 004, GB19510.1,GB19510.14,IP64 approved ; design refer to UL60950										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
ЕМС	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH										
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (>75% load) ; BS EN/EN61000-3-3;GB/T 17743,GB17625.1,EAC TP TC 020										
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11, BS EN/EN61547, BS EN/EN55035, light industry level (surge 4KV), EAC TP TC 0										
	MTBF	2689.6K hrs mir		332 (Bellcore); 30		IL-HDBK-217F (25		,,				
OTHERS	DIMENSION	2003:01(11/3 mm		(20.0010), 00			-/					
	PACKING	0.52Kg; 20pcs/1	1 /									
	1. All parameters NOT specially		*	C input, rated load a	ind 25 $^{\circ}$ C of ambien	t temperature.						
NOTE	 Ripple & noise are measured Tolerance : includes set up to Derating may be needed und This is the maximum possible of UL1310 class 2. Please refer to "DRIVING ME 7. Safety and EMC design refer The power supply is consider complete installation, the final (as available on https://www.r To fulfill requirements of the la connected to the mains. The mbient temperature de any application note and https://www.meanwell.com/U PLN-100-12 is used for any 	lerance, line regu er low input volta; e output current ai THODS OF LED to EN60598-1, si ed as a compone equipment manu- neanwell.com/Up tatest ErP regulatic rating of 3.5°C/10 IIP water proof load/PDF/LED [lation and load reg ge. Please check th d power. Over loa MODULE". ubject 8750(UL), C nt that will be oper facturers must re- load/PDF/EMI_stal n for lighting fixture 00m with fanless m notion installation o N.pdf	ulation. le static characteris d protection may be NS15233, GB7000. ated in combination ualify EMC Directiv tement_en.pdf) as, this LED power : nodels and of 5 [°] C/11 aution, please refer	tics for more details activated slightly b 1, FCC part18. with final equipment e on the complete is supply can only be 000m with fan mod our user manual b	t. Since EMC performstallation again. used behind a swithels for operating altitiefore using.	omply with the requi ormance will be affe ch without permane itude higher than 20	cted by the ntly				

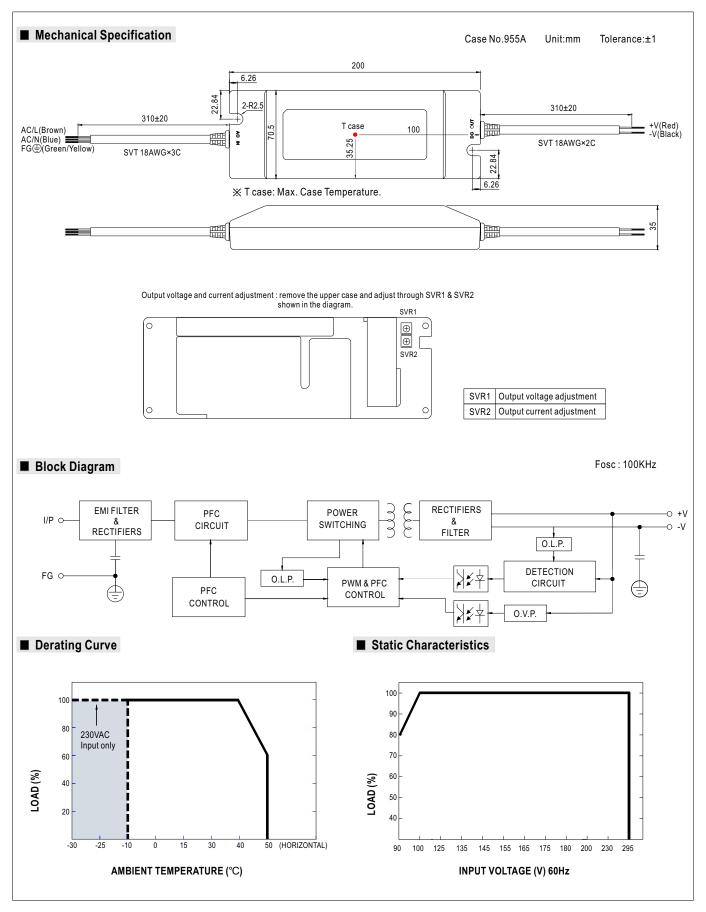


PLN-100-SPEC 2024-09-25



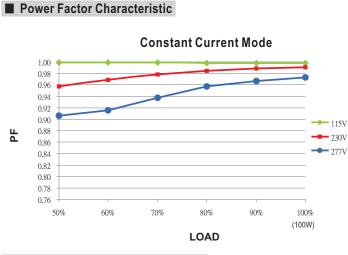


PLN-100 series



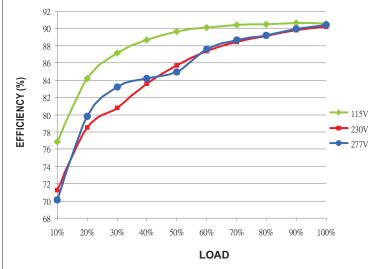


PLN-100 series



EFFICIENCY vs LOAD (48V Model)

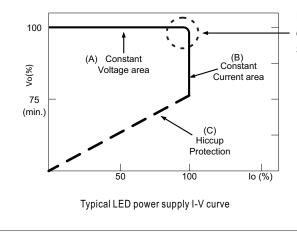
PLN-100 series possess superior working efficiency that up to 88.5% can be reached in field applications.



DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



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.