



■ Features :

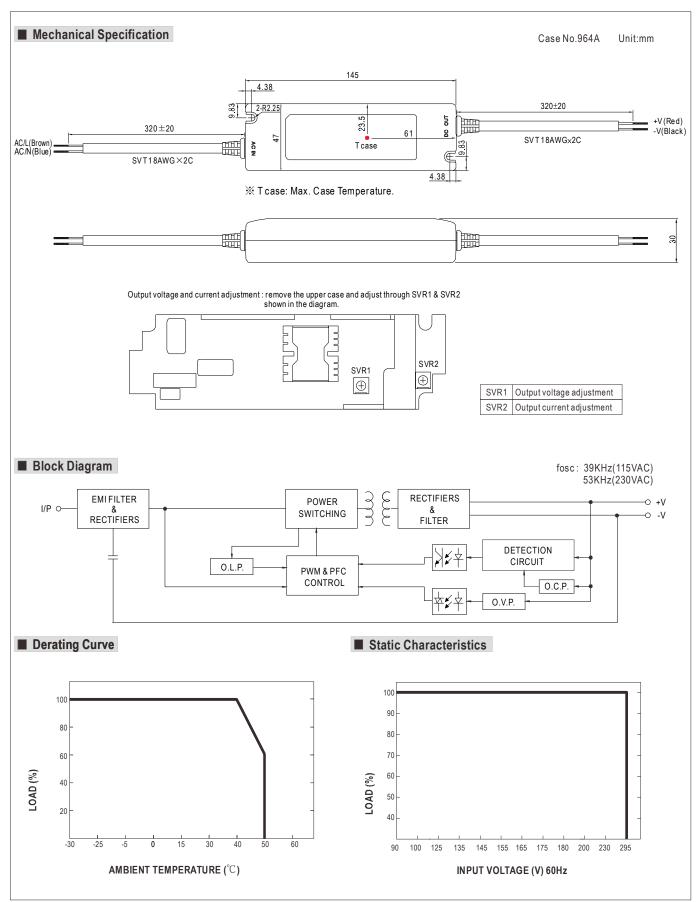
- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- Pass LPS
- Class Π power unit, no FG
- Class 2 power unit
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications (Note.2)
- · Compliance to worldwide safety regulations for lighting
- 2 years warranty



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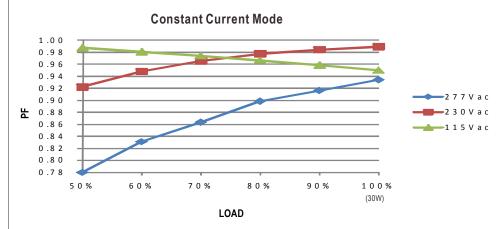
MODEL		PLN-30-9	PLN-30-12	PLN-30-15	PLN-30-20	PLN-30-24	PLN-30-27	PLN-30-36	PLN-30-48			
	DC VOLTAGE	9V	12V	15V	20V	24V	27V	36V	48V			
	CONSTANT CURRENT REGION Note.6		8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V			
	RATED CURRENT	3.3A	2.5A	2A	1.5A	1.25A	1.12A	0.84A	0.63A			
	CURRENT RANGE	0 ~ 3.3A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.25A	0 ~ 1.12A	0 ~ 0.84A	0 ~ 0.63A			
	RATED POWER	29.7W	30W	30W	30W	30W	30.24W	30.24W	30.24W			
	RIPPLE & NOISE (max.) Note.2		2Vp-p	2.6Vp-p	2.6Vp-p	2.6Vp-p	2.3Vp-p	4.5Vp-p	3.7Vp-p			
OUTPUT	` '					2.0 v p-p	2.5 ν ρ-ρ	4.5 v p-p	3.7 V p-p			
		-5% ~ 10%. Can be adjusted by internal potentiometer SVR1 3% ~ -25%. Can be adjusted by internal potentiometer SVR2										
	VOLTAGE TOLERANCE Note.3	, , ,										
	LINE REGULATION	±3.0%										
		±5.0%										
	LOAD REGULATION											
	SETUP TIME	2000ms / 230VAC 3000ms / 115VAC at full load										
		90 ~ 295VAC 127 ~ 417VDC										
	FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.95/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)											
	POWER FACTOR (Typ.)		-			1						
INPUT	EFFICIENCY (Typ.)	80%	82.5%	83.5%	84%	84%	84.5%	85%	85.5%			
	AC CURRENT (Typ.)	0.4A/115VAC	0.2A/230V		277VAC							
	INRUSH CURRENT (max.)	COLD START 35A(twidth=25µs measured at 50% lpeak) at 230VAC										
	LEAKAGE CURRENT	<0.5mA/240VAC										
	OVER CURRENT	100 ~ 110%										
	OVER CORREIN	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
DDOTECTION	SHORT CIRCUIT	Hiccup mode, r	ecovers automa	tically after faul	t condition is rer	noved.						
PROTECTION	0VED VOLTA 0E	10 ~ 14V	14 ~ 16V	17 ~ 22V	23 ~ 26V	27 ~ 34V	31 ~ 35V	40 ~ 50V	53 ~ 63V			
	OVER VOLTAGE	Protection type	: Shut down o/p	voltage, re-pov	ver on to recove	r						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	-30 ~ +50°C (Refer to "Derating Curve")										
	WORKING HUMIDITY											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 1	0 ~ 95% RH									
	TEMP. COEFFICIENT	±0.06%/°C (0	~50°C)									
	VIBRATION	,	,	period for 72m	in, each along X	. Y. Z axes						
		10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes UL879, UL1310, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91										
	SAFETY STANDARDS	(except for 48V), IP64, J61347-1, J61347-2-13 approved										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH										
	EMC EMISSION											
	EMC IMMUNITY											
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level, criteria B 621.4K hrs min. MIL-HDBK-217F (25°C)										
OTHERS				21/1 (25 ()								
	DIMENSION	145*47*30mm		СТ								
	PACKING 0.22Kg; 60pcs/14.2Kg/1.25CUFT											
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. Please refer to "DRIVING METHODS OF LED MODULE". The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 											





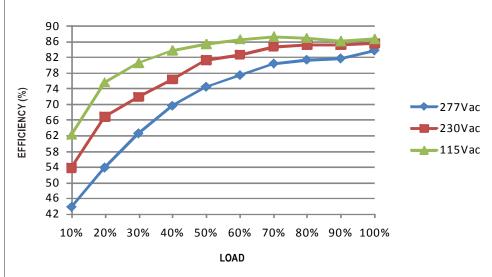


■ Power Factor Characteristic



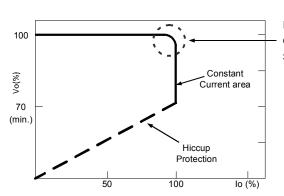
■ EFFICIENCY vs LOAD (48V Model)

PLN-30 series possess superior working efficiency that up to 85.5% 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.



Typic al 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:

PLN-30-36 PLN-30-12 PLN-30-20 PLN-30-24 PLN-30-27 PLN-30-9 PLN-30-48 PLN-30-15