



## Features :

- Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- · IP64 design for indoor or outdoor installations
- UL1310 Class 2 power unit
- · Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

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MODEL		PLN-60-12	PLN-60-15	PLN-60-20	PLN-60-24	PLN-60-27	PLN-60-36	PLN-60-48			
DC VOLTAGE		12V	15V	20V	24V	27V	36V	48V			
	CONSTANT CURRENT REGION Note.7	8.4 ~ 12V	10.5 ~15V	14 ~ 20V	16.8 ~24V	18.9 ~27V	25.2 ~ 36V	33.6 ~ 48V			
	RATED CURRENT	5A	4A	3A	2.5A	2.3A	1.7A	1.3A			
	CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.7A	0 ~ 1.3A			
	RATED POWER	60W	60W	60W	60W	62.1W	61W	62.5W			
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	4.6Vp-p			
		11 ~ 13V	13.8 ~ 16.2V	18 ~ 22V	22 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8			
	VOLTAGE ADJ. RANGE Note.6	Can be adjusted by internal potential meter SVR1									
	CURRENT ADJ. RANGE Note.6	s 3% ∼ -25%. Can be adjusted by internal potential meter SVR2									
	VOLTAGE TOLERANCE Note.3	±10%									
	LINE REGULATION	±3.0%									
	LOAD REGULATION	±5.0%									
	SETUP TIME	1500ms / 230VAC 3000ms / 115VAC at full load									
	VOLTAGE RANGE Note.5	90 ~ 264VAC	127 ~ 370VD0	C							
	FREQUENCY RANGE	47 ~ 63Hz						17. W			
	POWER FACTOR	PF ≥ 0.9 at 75	~ 100% load, 115	VAC / 230VAC		100	_7_	- CM			
INPUT	EFFICIENCY(Typ.)	83%	84.5%	86.5%	86.5%	87%	87%	88%			
	AC CURRENT	0.8A/115VAC	0.4A/230VAC		- 100		JUL W. U.				
	INRUSH CURRENT(max.)	40A/230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VAC									
	OVER CURRENT	95 ~ 110% 130% (max)									
	OVERCOUNTERT	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT Note.4	Hiccup mode, recovers automatically after fault condition is removed.									
	OVER VOLTAGE	13.8 ~ 16V	17.5 ~ 21V	22.8 ~ 25V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V			
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	95°C ±10°C (TSW1) detect on heatsink of power transistor									
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.	-30 ~ +50°C (Refer to output load 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)									
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes									
-	SAFETY STANDARDS	UL1310 Class 2, TUV EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH									
	EMI CONDUCTION & RADIATION	Compliance to	EN55015, EN55022 (CISPR22) Class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3									
	EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024,EN61547, light industry						level, criteria A				
	MTBF	497.8Khrs min. MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	181*61.5*35m	m (L*W*H)								
	PACKING	0.5Kg; 24pcs/	13Kg/0.75CUFT								
<b>→</b>	1 All parameters NOT specia	lly mentioned a	re measured at 2	30VAC input_rate	d load and 25°C o	of ambient tempera	ature				

- 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.

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- olerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to OLP characteristics.

NOTE

- 5. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 6. 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.



