



## 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
- 2 years warranty

## SPECIFICATION F 110 M M SELV EQUIVALENT LPS M (for 48V only) c US (except for 48V) IP64 F A BARRET TO THE PROPERTY OF THE PRO

MODEL		PLN-60-12	PLN-60-15	PLN-60-20	PLN-60-24	PLN-60-27	PLN-60-36	PLN-60-48	
ОИТРИТ	DC VOLTAGE	12V	15V	20V	24V	27V	36V	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	
	VOLTAGE ADJ. RANGE Note.6	11 ~ 13V	13.8 ~ 16.2V	18 ~ 22V	22 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8\	
	CURRENT ADJ. RANGE Note.6	3% ~ -25%							
	VOLTAGE TOLERANCE Note.3	±10%							
	LINE REGULATION	±4.0%							
	LOAD REGULATION	±10%							
	SETUP, RISE TIME	1500ms, 100ms / 230VAC 3000ms, 100ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	PF>0.9/230VA0	PF>0.98/1	15VAC at full load					
	EFFICIENCY(Typ.)	83%	84.5%	86.5%	86.5%	87%	87%	88%	
	AC CURRENT	0.8A/115VAC	0.4A/230VAC			•	•		
	INRUSH CURRENT(max.)	40A/230VAC							
	LEAKAGE CURRENT	0.5mA / 240VAC							
PROTECTION	OVER CURRENT	95 ~ 110% 130% (max)							
	OVER CORRENT	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 type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	95°C ±10°C (TSW1) detect on heatsink of power transistor							
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
ENVIRONMENT  SAFETY & EMC	WORKING TEMP.	-30 ~ +50°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(except for 48V), EN61347-1, EN61347-2-13, IP64 approved							
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC							
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B							
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024,EN61547, light industry level, criteria A							
OTHERS	MTBF	497.8Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION		181*61.5*35mm (L*W*H)						
	PACKING		0.5Kg; 24pcs/13Kg/0.75CUFT						
NOTE	All parameters NOT special     Ripple & noise are measure	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  tolerance, line regulation and load regulation.							

- Please refer to OLP characteristics.
- 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.



