



## Features:

- Universal AC input / Full range
- 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

SPF	CIF	CAT	ION



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			
ОИТРИТ	CONSTANT CURRENT REGION Note.7	6 ~ 12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	13.5 ~ 27V	18 ~ 36V	24 ~ 48V			
	RATED CURRENT Note.6		5A	4.8A	4A	3.55A	2.65A	2A			
	CURRENT RANGE Note.6	0 ~ 5A	0 ~ 5A	0 ~ 4.8A	0 ~ 4A	0 ~ 3.55A	0 ~ 2.65A	0 ~ 2A			
	RATED POWER Note.6	60W	75W	96W	96W	95.85W	95.4W	96W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE	0% ~ -15%. Can be adjusted by internal potential meter SVR1									
	CURRENT ADJ. RANGE	3% ~ -25%. Can be adjusted by internal potential meter SVR2									
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	LINE REGULATION	±1.0%	- 17/11		17						
	LOAD REGULATION	±2.0%									
	SETUP, RISE TIME	1200ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load									
	HOLD UP TIME (Typ.)	60ms/230VAC 30ms/115VAC at full load									
(6	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VA	.C PF>0.95/1	15VAC at full load				7.00			
NPUT	EFFICIENCY (Typ.)	83%	85%	87%	87%	87%	87%	87%			
	AC CURRENT (Typ.)	12V:0.8A/115V	AC 0.4A/230VAC	15V:0.9A/11	5VAC 0.45A/230	VAC 20V ~ 48	8V:1.1A/115VAC	0.55A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC									
	LEAKAGE CURRENT	0.5mA / 240VAC									
PROTECTION	OVER CURRENT Note.4	95 ~ 100%									
	OVER CORRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	29 ~ 36V	39 ~ 48V	52 ~ 64V			
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	90℃±10℃ (RTH2)									
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 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 &	CAFETY CTANDADDC	UL1310 Class 2, UL879 ( listed in UL Sign Components Manual (SAM) ), TUV EN60950-1, EN61347-1, EN61347-2-13									
	SAFETY STANDARDS	CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved									
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B									
	HARMONIC CURRENT	Compliance to I	Compliance to EN61000-3-2 Class C (>50% load); EN61000-3-3								
	EMS IMMUNITY	Compliance to I	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level, criteria A								
OTHERS	MTBF	303.1Khrs min.									
	DIMENSION		200*70.5*35mm (L*W*H)								
	PACKING	0.52Kg; 20pcs/	11.4Kg/0.76CUFT								
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- 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.

  3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to OLP characteristics.
- 5. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 6. This is the maximum possible output current and power. Over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2.

