

PLN-100 series



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
- 2 years warranty

F 110 M SELV LPS AL (for 48V only) c UIS (except for 48V) IP64 C (C C

MODEL		PLN-100-12	PLN-100-15	PLN-100-20	PLN-100-24	PLN-100-27	PLN-100-36	PLN-100-48
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V
	LED OPERATION VOLTAGE Note.7	6 ~ 12V	7.5 ~ 15V	10~20V	12 ~ 24V	13.5 ~ 27V	18~36V	24 ~ 48V
	RATED CURRENT Note.6	5A	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%				-		
	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						
INPUT		90 ~ 264VAC 127 ~ 370VDC						
	FREQUENCY RANGE	47~63Hz						
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load						
	EFFICIENCY (Typ.)	83%	85%	87%	87%	87%	87%	87%
	AC CURRENT (Typ.)	03% 07% 07% 07% 07% 07% 07% 07%						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	0.5mA/240VAC						
PROTECTION	OVER CURRENT Note.4	95 ~ 100% Protection type : Constant current limiting, recovers automatically after fault condition is removed						
				22 ~ 27V	27 ~ 34V		-	50 6414
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V			29 ~ 36V	39 ~ 48V	52 ~ 64V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	90° C ±10°C (RTH2)						
		Protection type : Shut down o/p voltage, re-power on to recover						
	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, TUV EN60950-1, EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved						
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC						
EMC	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, EN61547, EN55024, light industry level, criteria A						
OTHERS	MTBF	303.1Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	200*70.5*35mm (L*W*H)						
	PACKING	0.52Kg; 20pcs/11.4Kg/0.76CUFT						
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up Please refer to OLP charac Derating may be needed ur This is the maximum possit of UL1310 class 2. 	Illy 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.						



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