

SPECIFICATION

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
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

F 110 M M SELV LPS	(for 48V only) c US (except for 48V	IP64 R	CEPMAFT TYPE APPROVED
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	PLN-100-12	PLN-100-15	PLN-100-20	PLN-100-24	PLN-100-27	PLN-100-36	PLN-100-48			
DC VOI TAGE	12\/	15V	201/	241/	27\/	36V	48V			
							36~48V			
	• ·=·						2A			
					-		96W			
		-					200mVp-p			
. ,	• •				· · ·		40.8 ~ 48V			
. ,					-		1.5 ~ 2A			
. ,			-				±2.0%			
,										
		1	1	1		87%	87%			
() (0.55A/230VAC			
OVER CURRENT Note.4										
SHUKI CIRCUIT Note.4	• •	1			20 ~ 261/	20 ~ 191/	52~64V			
OVER VOLTAGE		1				39 40 0	52 * 04 0			
OVER TEMPERATURE										
VIBRATION										
SAFETY STANDARDS Note.8										
			,,							
				.5KVAC						
			, , ,							
	Compliance to El	N61000-4-2,3,4,5,6	5,8,11; ENV50204,	EN61547, EN550	24, light industry le	vel (surge 4KV), c	riteria A			
	303.1Khrs min.		(25℃)							
		, ,								
PACKING	. .	*								
 Ripple & noise are measure Tolerance : includes set up Please refer to OLP characi Derating may be needed ur This is the maximum possib of UL1310 class 2. Constant current operation of 	ed at 20MHz of ba tolerance, line req teristics. Inder low input volto ble output current region is within 75	andwidth by using gulation and load r age. Please check and power. Over l i% ~100% rated o	a 12" twisted pair- egulation. < the derating curvo oad protection ma utput voltage. This	wire terminated w re for more details by be activated slig	vith a 0.1uf & 47uf s. ghtly below this lev	parallel capacitor.	the requirement			
	RATED CURRENT Note.6 RATED POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE (SVR1) CURRENT ADJ. RANGE (SVR2) VOLTAGE TOLERANCE VOLTAGE TOLERANCE Note.3 LINE REGULATION INE LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) LEAKAGE CURRENT Note.4 SHORT CIRCUIT Note.4 SHORT CIRCUIT Note.4 OVER VOLTAGE VOER.4 OVER VOLTAGE Note.4 SHORT CIRCUIT Note.4 SHORT CIRCUIT Note.4 SHORT CIRCUIT Note.4 OVER VOLTAGE VOERAGE TEMP. WORKING TEMP. VORKING HUMIDITY STORAGE TEMP., HUMIDITY STORAGE TEMP., HUMIDITY STORAGE TEMP., HUMIDITY STORAGE TEMP. VIBRATION SAFETY STANDARDS SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY MTBF JIMENSION PACKING I. All parameters NOT special 1. Al	CONSTANT CURRENT REGION Note.79 ~ 12VRATED CURRENTNote.65ARATED POWERNote.660WRIPPLE & NOISE (max.) Note.2150mVp-pVOLTAGE ADJ. RANGE (SVR)110.2 ~ 12VCURRENT ADJ. RANGE(SVR)23.75 ~ 5AVOLTAGE TOLERANCE Note.3±3.0%LINE REGULATION±1.0%LOAD REGULATION±2.0%SETUP, RISE TIME1200ms, 80ms/23HOLD UP TIME (Typ.)60ms/230VAC 3VOLTAGE RANGENote.590 ~ 264VACFREQUENCY RANGE47 ~ 63HzPOWER FACTOR (Typ.)FF>0.95/230VACEFFICIENCY (Typ.)83%AC CURRENT (Typ.)COLD START 40LEAKAGE CURRENT (Typ.)COLD START 40VER CURRENT (Typ.)COLD START 40OVER CURRENT Note.4Hiccup mode, redOVER VOLTAGE90°C ±10°C (RHProtection type :90°C ±10°C (RHWORKING TEMP30 ~ +50°C (RefWORKING TEMP30 ~ +50°C (RefWORKING HUMIDITY20 ~ 95% RH norSTAFETY STANDARDSNote.8UL1310 Class 2, ECAN/CSA C22.2WITHSTAND VOLTAGEI/P-O/P:100M OHEMI CONDUCTION & RADIATIONCompliance to EHMTBF303.1Khrs min.DIMENSION200*70.5*35mmPACKINGNote-searce-at 20MHz of ba3. Tolerance : includes seture tat 20MHz of ba3. Tolerance : includ	CONSTANT CURRENT REGION Note.7 9 ~ 12V 11.25 ~ 15V RATED CURRENT Note.6 5A 5A RATED POWER Note.6 60W 75W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE (SVR1) 10.2 ~ 12V 12.8 ~ 15V CURRENT ADJ. RANGE (SVR2) 3.75 ~ 5A 3.75 ~ 5A VOLTAGE TOLERANCE Note.3 ±3.0% ±3.0% LINE REGULATION ±1.0% LOAD REGULATION SETUP, RISE TIME 1200ms, 80ms/230VAC 1200ms, 8 POLD UP TIME (Typ.) 60ms/230VAC 30ms/115VAC at full VOLTAGE RANGE Note.5 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE Y ~ 63H2 POWER FACTOR (Typ.) PF>0.95/230VAC PF>0.95/115 EFFICIENCY (Typ.) 83% 85% AC CURRENT (Typ.) COLD START 40A/230VAC IRAKGE CURRENT <0.75mA / 240VAC	CONSTANT CURRENT REGION Note.7 9 ~ 12V 11.25 ~ 15V 15 ~ 20V RATED CURRENT Note.6 5A 5A 4.8A RATED POWER Note.6 60W 75W 96W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE (svr.1) 10.2 ~ 12V 12.8 ~ 15V 17 ~ 20V CURRENT ADJ. RANGE(svr.2) 3.75 ~ 5A 3.76 ~ 5A 3.6 ~ 4.8A VOLTAGE TOLERANCE Note.3 ±3.0% ±3.0% ±3.0% ±3.0% LINE REGULATION ±2.0% SETUP, RISE TIME 1200ms, 80ms/135VAC 1200ms, 80ms/115VAC at full VOLTAGE RANGE Note.5 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE Note.5 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE Note.5 85% 87% 87% AC CURRENT (Typ.) 83% 85% 87% 87% 76/2 OVER CURRENT (Typ.) 10 ~ 502% Protection type : Constant current limiting, recovers au SHORT CIRCUIT Note.4 95 ~ 102% Protection type : Shut down o/p voltage,	CONSTANT CURRENT EGION Note.2 9 - 12 V 11.25 - 15 V 15 - 20 V 18 - 24 V RATED CURRENT Note.6 5A 5A 4.8A 4A RATED POWER Note.6 60W 75 W 96 W 96 W 96 W RATED POWER Note.2 150m/Vp-p 150m/Vp-p 150m/Vp-p 150m/Vp-p VOLTAGE ADJ. RANGE (SWR) 10.2 - 12 V 12.8 - 15 V 17 - 20 V 20.4 - 24 V CURRENT ADJ. RANGE (SWR) 3.75 - 5A 3.75 - 5A 3.6 - 4.8A 3 - 4A VOLTAGE TOLERANCE Note.3 ±3.0% ±3.0% ±3.0% ±3.0% ±3.0% LINE REGULATION ±0.0% SETUP, RISE TIME 1200ms, 80ms/135VAC at full load FG FG MOLTAGE RANGE Note.5 0 - 264VAC 127 - 370VDC FREQUENCY RANGE 47 - 631z POWER FACTOR (Typ.) 653/8 85% 87% 87% 67% AC CURRENT (Typ.) COLD START 40A/230VAC 15V:0.9A/115VAC 0.45A/230 NA5/230 INRUSH CURRENT (Typ.) COLD START 40A/230VAC 15V:0.9A/115VAC 0.45A/230 NA5/240	CONSTANT CURRENT Notes 9 - 12V 11.25 - 15V 15 - 20V 18 - 24V 20.25 - 27V RATED POWER Notes 6A 5A 4.8A 4A 3.55A RATED POWER Notes 60W 75W 96W 96W 95.85W PPLE & NOISE (max). Notes 100/P-p 150m/Vp-p 150m/Vp-p 150m/Vp-p 150m/Vp-p VOLTAGE ADJ. RANGE (svr.1) 10.2 - 12V 12.8 - 15V 17 - 20V 20.4 - 24V 23 - 27V CURRENT ADJ. RANGE (svr.1) 10.2 - 12V 12.8 - 15V 17 - 20V 20.4 - 24V 23 - 27V CURRENT ADJ. RANGE (svr.1) 12.0 * 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 13.0 % 15.0 % 15.0 % 16.5 * 20 % 17 * 7 % 20 * 10 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 % 10.0 %	CONSTANT CURRENT REGION INEL? 9 - 12V 11.25 - 15V 15 - 20V 18 - 24V 20.25 - 27V 27 - 36V RATED DURRENT Notes 56 5A 4.8.A 4A 3.55.A 2.25.A RATED DURRENT Notes 560W 75W 96W 96W 95.85W 95.4W RIPDLE & NOISE (max.) Note.2 150mVp-p 150mVp-p			



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