



■ Features :

- Universal AC input / Full range(up to 277VAC)
- · Built-in constant current limiting circuit with adjustable OCP level
- · Fully isolated plastic case
- Protections:Short circuit/Over load/Over voltage/Over temperature
- · Built-in active PFC function
- IP64 design for indoor or outdoor installations
- · Small and compact size
- Cooling by free air convection
- 100% full load burn-in test
- · High reliability,low cost
- · Suitable for Damp / wet locations
- Suitable for LED lighting and moving sign applications
- · 2 years warranty

SPECIFICATION



MODEL		PLN-20-12	PLN-20-18	PLN-20-24	PLN-20-36	PLN-20-48	
	DC VOLTAGE	12V	18V	24V	36V	48V	
ОИТРИТ	LED OPERATION VOLTAGE Note.5	9 ~ 12V	13.5 ~ 18V	18 ~ 24V	27 ~ 36V	36 ~ 48V	
	RATED CURRENT	1.6A	1.1A	0.8A	0.55A	0.42A	
	CURRENT RANGE	0 ~ 1.6A	0 ~ 1.1A	0 ~ 0.8A	0 ~ 0.55A	0 ~ 0.42A	
	CURRENT ADJ. RANGE	75% ~ 100%					
	RATED POWER	19.2W	19.8W	19.2W	19.8W	20.2W	
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p	3.0Vp-p	3.0Vp-p	3.0Vp-p	3.8Vp-p	
	VOLTAGE TOLERANCE Note.3	±10%					
	LINE REGULATION	±3.0%					
	LOAD REGULATION	±10%					
	SETUP TIME	2300ms / 230VAC 3000ms / 115VAC at full load					
INPUT	VOLTAGE RANGE Note.4	90 ~ 277VAC 127~392VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≡0.9 at 75~100% loa	nd, 115VAC/230VAC				
	EFFICIENCY(Typ.)	80%	81%	82%	83%	83.5%	
	AC CURRENT	0.4A/115VAC 0.2A/230VAC					
	INRUSH CURRENT(max.)	40A/230VAC					
	LEAKAGE CURRENT	0.5mA / 240VAC					
PROTECTION	OVER CURRENT Note.5	95 ~ 110%					
		Protection type: Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.					
	OVER VOLTAGE	14 ~ 16V	19 ~ 22V	27 ~ 34V	41 ~ 46V	54 ~ 60V	
		Protection type : Shut of	f o/p voltage, clampir	ng by zener diode			
	OVED TEMPEDATURE	110°C±10°C (TSW1)					
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°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	±0.06%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	IEC61347-1, IEC61347-2-13, TUV EN61347-1, EN61347-2-13, UL8750, IP64 approved					
	EMI CONDUCTION & RADIATION	Compliance to EN55015					
SAFETY &	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C(=75% load);EN61000-3-3					
EMC	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547, light industry level, criteria A					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC / 25°C/ 70%RH					
OTHERS	MTBF	643.6Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	147*37*28mm (L*W*H)					
	PACKING	0.18Kg; 60pcs/12.8Kg/0.9CUFT					
NOTE	1. All parameters NOT special	ters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.					
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- 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. Derating may be needed under low input voltage, please check the static characteristic for more details.
- 5. Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



