



## Features:

- Universal AC input / Full range (up to 280VAC)
- High efficiency 89%
- 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 (Note.2)
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

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
	CONSTANT CURRENT REGION Note.7	8.4 ~ 12V	10.5 ~15V	14 ~ 20V	16.8 ~24V	18.9 ~27V	25.2 ~ 36V	33.6 ~ 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	11.5 ~ 13V	14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8V
		Can be adjusted	d by internal poter	ntial meter SVR1				<u> </u>
	CURRENT ADJ. RANGE Note.6	6 3% ~ -25%. Can be adjusted by internal potential meter SVR2						
	VOLTAGE TOLERANCE Note.3	±10%						
	LINE REGULATION	±3.0%						
	LOAD REGULATION	±5.0%						
	SETUP TIME	1500ms / 230VAC 3000ms / 115VAC at full load						
INPUT	VOLTAGE RANGE Note.5	90 ~ 295VAC 127 ~ 417VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF ≥ 0.9 at 75 ~ 100% load, 115VAC / 230VAC						
	EFFICIENCY(Typ.)	85%	86%	87.5%	87%	88%	89%	89%
	AC CURRENT	0.8A/115VAC	0.4A/230VAC					
	INRUSH CURRENT(max.)	40A/230VAC						
	LEAKAGE CURRENT	<0.75mA/240VAC						
PROTECTION	OVER CURRENT	95 ~ 110%						
		Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT Note.4							
	OHORT OHOOTT HOLE.4	13.8 ~ 16V	17.5 ~ 21V	22.8 ~ 25V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V
	OVER VOLTAGE					100		10. 00.
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover  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	WORKING TEMP.	-30 ~ +50°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION							
	SAFETY STANDARDS	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes UL879, UL1310 Class 2, TUV EN61347-1, EN61347-2-13 independent, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 appro-						
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH   Compliance to EN55015, EN55022 (CISPR22) Class B						
	EMI CONDUCTION & RADIATION							
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load); EN61000-3-3						
	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)  0.5Kq; 24pcs/13Kq/0.75CUFT						
	PACKING	0, 1		201/40:	LL L LOESC			
OTE	Ripple & noise are measure Direct connecting to LEDs is Tolerance: includes set up 4. Please refer to OLP characts. Derating may be needed up 6. Output voltage can be adjuing. Constant current operation.	ally 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.  is not suggested for models with "RIPPLE & NOISE" >±10% and using additional drivers is highly recommended.  tolerance, line regulation and load regulation.  cteristics.  Inder low input voltage. Please check the derating curve for more details.  Isted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB. region is within 70% ~100% rated output voltage. This is the suitable operation region for LED related applications, but pleas requirements for some specific system design.						



