

- Features :
 - Constant current and constant voltage mode power supply
 - Universal AC input / Full range
 - Fully isolated plastic case
 - Protections:Short circuit/Over load/Over voltage/Over temperature
 - Built-in PFC (single stage)
 - Small and compact size
 - Cooling by free air convection
 - 100% full load burn-in test
 - High reliability,low cost
 - Suitable for LED lighting and moving sign applications
 - 2 years warranty

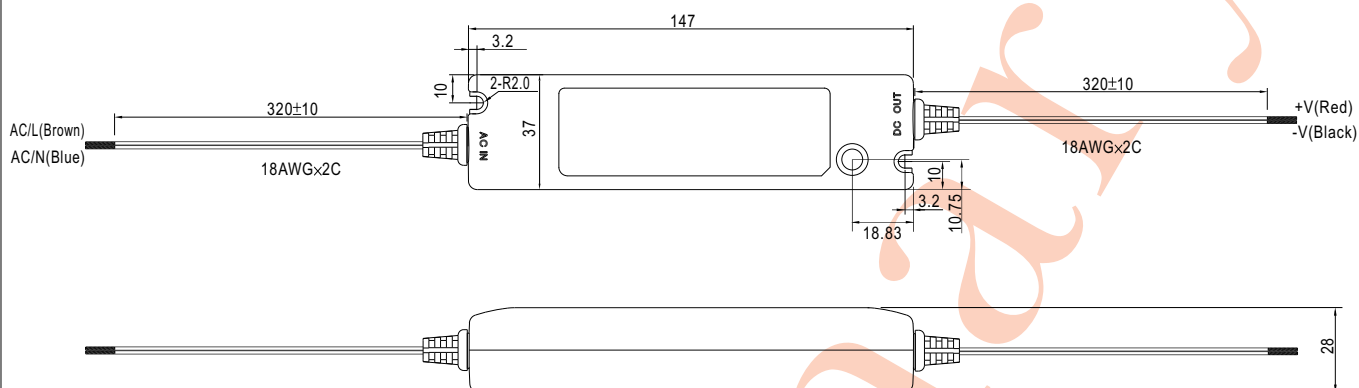


SPECIFICATION

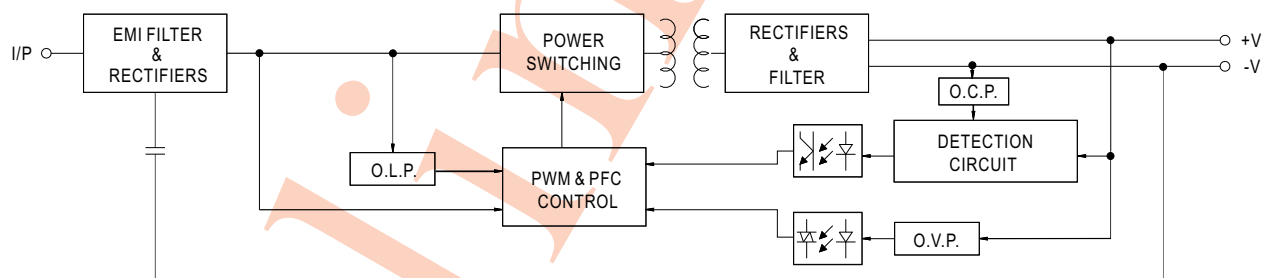
MODEL		PLN-20-12	PLN-20-18	PLN-20-24	PLN-20-36	PLN-20-48
OUTPUT	DC VOLTAGE	12V	18V	24V	36V	48V
	LED OPERATION VOLTAGE Note.5	8 ~ 12V	12 ~ 18V	16 ~ 24V	25 ~ 36V	33 ~ 48V
	RATED CURRENT	1.6A	1.1A	0.8A	0.5A	0.4A
	CURRENT RANGE	0.1 ~ 1.6A	0.1 ~ 1.1A	0.1 ~ 0.8A	0.1 ~ 0.5A	0.1 ~ 0.4A
	CURRENT ADJ. RANGE Note.6	75% ~ 100%				
	RATED POWER	19.2W	19.8W	19.2W	18.0W	19.2W
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p	2.5Vp-p	2.5Vp-p	2.5Vp-p	2.5Vp-p
	VOLTAGE TOLERANCE Note.3	±10%				
	LINE REGULATION	±3.0%				
	LOAD REGULATION	±10%				
	SETUP, RISE TIME	2000ms, 150ms / 230VAC 3000ms, 150ms / 115VAC at full load				
INPUT	VOLTAGE RANGE	90 ~ 264VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF>0.9/230VAC				
	EFFICIENCY(Typ.)	80%	83%	83%	83%	84%
	AC CURRENT	0.4A/115VAC 0.2A/230VAC				
	INRUSH CURRENT(max.)	40A/230VAC				
	LEAKAGE CURRENT	0.5mA / 240VAC				
PROTECTION	OVER CURRENT Note.4	110 ~ 140%				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.				
	OVER VOLTAGE	14 ~ 16V	17 ~ 22V	27 ~ 34V	41 ~ 46V	54 ~ 60V
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	110°C±10°C (TSW1)				
ENVIRONMENT	WORKING TEMP.	-20 ~ +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 & EMC	SAFETY STANDARDS	TUV EN61347-1, EN61347-2-13, UI1310 approved				
	EMI CONDUCTION & RADIATION	Compliance to EN55015				
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C(>75% load)				
	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:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC 25°C 70%RH				
OTHERS	MTBF	Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	147*37*28mm (L*W*H)				
	PACKING	0.18Kg; 60pcs/12.8Kg/1.03CUFT				
NOTE		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. Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications. 6. The output current of Constant Current models are adjustable at factory from 75%~100%.				

■ Mechanical Specification

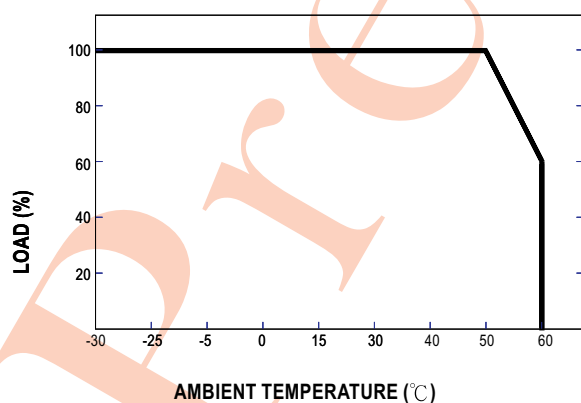
Case No. Unit:mm



■ Block Diagram



Derating Curve



■ OLP Characteristics

