



Features:

- · Constant current and constant voltage mode power supply
- 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 PFC (single stage) 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 LED lighting and moving sign applications
- 2 years warranty

SPECIFICATION

SELV IP64 SUS P A DEC CBCE

	PLN-20-12	PLN-20-18	PLN-20-24	PLN-20-36	PLN-20-48
DC VOLTAGE	12V	18V	24V	36V	48V
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					
LINE REGULATION					
LOAD REGULATION	±10%				
SETUP TIME	2300ms / 230VAC 3000ms / 115VAC at full load				
VOLTAGE RANGE Note.4	90 ~ 277VAC				
FREQUENCY RANGE	47 ~ 63Hz				
POWER FACTOR	PF≡0.9 at 75~100% load, 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				
OVER CURRENT Note.5	95 ~ 110%				
	Protection type: Hiccup current limiting, recovers automatically after fault condition is removed				
SHORT CIRCUIT	, ,	•	•		
OVER VOLTAGE	14 ~ 16V	19~22V	27 ~ 34V	41 ~ 46V	54 ~ 60V
	Protection type : Shut of	ff o/p voltage, clampi	ng by zener diode		<u> </u>
OVER TEMPERATURE	110°C±10°C (TSW1)				
	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down				
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				
	IEC61347-1, IEC61347-2-13, TUV EN61347-1, EN61347-2-13, UL8750, IP64 approved				
FMI CONDUCTION & RADIATION	a li di Filippor				
	Compliance to EN61000-3-2 Class C(=75% load);EN61000-3-3				
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
DIMENSION	147*37*28mm (L*W*H)				
DIMENSION	0.18Kg; 60pcs/12.8Kg/0.9CUFT				
	LED OPERATION VOLTAGE Note.5 RATED CURRENT CURRENT RANGE CURRENT ADJ. RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP TIME VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR EFFICIENCY(Typ.) AC CURRENT INRUSH CURRENT(max.) LEAKAGE CURRENT OVER CURRENT OVER CURRENT OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY WITHSTAND VOLTAGE ISOLATION RESISTANCE MTBF	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE 12V	DC VOLTAGE 12V

- 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 derating curve 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.



