



■ Features :

- Universal AC input / Full range
- · Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- 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

SELV LPS (except for 48V) IP64 (FC) (Section 1970) (EQUIPMENT | LPS (Section 1970) (Secti **SPECIFICATION** PLN-30-9 PLN-30-24 PLN-30-27 PLN-30-36 PLN-30-48 MODEL PLN-30-12 PLN-30-15 PLN-30-20

ľ		DC VOLTAGE	9V	12V	15V	20V	24V	27V	36V	48V
		CONSTANT CURRENT REGION Note.6	6.3 ~ 9V	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V
		RATED CURRENT	3.3A	2.5A	2A	1.5A	1.25A	1.12A	0.84A	0.63A
		CURRENT RANGE	0 ~ 3.3A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.25A	0 ~ 1.12A	0 ~ 0.84A	0 ~ 0.63A
		RATED POWER	29.7W	30W	30W	30W	30W	30.24W	30.24W	30.24W
	OUTPUT	RIPPLE & NOISE (max.) Note.2	2.6Vp-p	2Vp-p	2.6Vp-p	2.6Vp-p	2.6Vp-p	2.3Vp-p	4.5Vp-p	3.7Vp-p
		VOLTAGE ADJ. RANGE Note.5	-5% ~ 10%. Can be adjusted by internal potential meter SVR1							
П										

CURRENT ADJ. RANGE Note.5 3% ~ -25%. Can be adjusted by internal potential meter SVR2 **VOLTAGE TOLERANCE Note.3** ±10%

LINE REGULATION +3.0% LOAD REGULATION +5.0%

1500ms / 230VAC 3000ms / 115VAC at full load

SETUP TIME VOLTAGE RANGE 90 ~ 264VAC

127 ~ 370VDC

47 ~ 63Hz **FREQUENCY RANGE POWER FACTOR**

EFFICIENCY(Typ.)

OVER CURRENT

OVER VOLTAGE

AC CURRENT

INPUT

PROTECTION

SAFFTY &

EMC

NOTE

PF≥0.9 at 75 ~ 100% load, 115VAC / 230VAC 82.5%

0.4A/115VAC 0.2A/230VAC

40A/230VAC **INRUSH CURRENT(max.)** <0.5mA / 240VAC

LEAKAGE CURRENT 100 ~ 110%

Protection type: Constant current limiting, recovers automatically after fault condition is removed

84%

84%

84.5%

85%

40 ~ 50V

85.5%

53 ~ 63V

SHORT CIRCUIT

Hiccup mode, recovers automatically after fault condition is removed 10 ~ 14V 14 ~ 16V 17 ~ 22V 23 ~ 26V 27 ~ 34V 31 ~ 35V

Protection type: Shut down o/p voltage, re-power on to recover 95°C ±10°C (TSW1)

OVER TEMPERATURE Protection type: Shut down o/p voltage, re-power on to recover

-30 ~ +50°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 95% RH non-condensing **WORKING HUMIDITY**

ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH **TEMP. COEFFICIENT**

±0.06%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes TUV EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved

SAFETY STANDARDS WITHSTAND VOLTAGE I/P-O/P:3.75KVAC

ISOLATION RESISTANCE

I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH

EMI CONDUCTION & RADIATION Compliance to EN55015

Compliance to EN61000-3-2 Class C (pin ≥ 25W), Class D (>70% load); EN61000-3-3 HARMONIC CURRENT Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A **EMS IMMUNITY**

MTBF 621.4Khrs min. MIL-HDBK-217F (25°C)

OTHERS DIMENSION 145*47*30mm (L*W*H) **PACKING** 0.22Kg; 60pcs/14.2Kg/1.25CUFT

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. Direct connecting to LEDs is not suggested for models with "RIPPLE & NOISE" >±10% and using additional drivers is highly recommended.

3. Tolerance: includes set up tolerance, line regulation and load regulation.

- 4. Please refer to OLP characteristics.
- 5. Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
- 6. Constant current operation region is within 70% ~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.
- 7. 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.



