



Features:

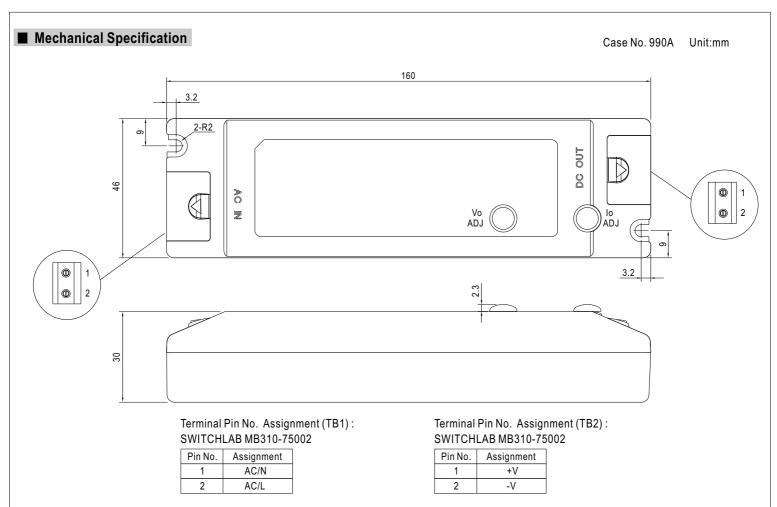
- · Universal AC input / Full range
- Fully isolated plastic case with terminal block style of I/O
- · Built-in constant current limiting circuit
- Adjustable output voltage and current level
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Built-in active PFC function, comply with EN61000-3-2 class C (Pin≥25W)
- · 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



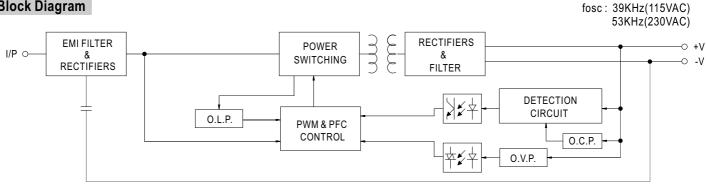
SPECIFICATION MODEL PI C-30-9 PI C-30-12 PLC-30-15 PLC-30-20 PLC-30-24 PI C-30-27 PI C-30-36 PI C-30-48 **DC VOLTAGE** 9V 12V 15V 20V 24V 27V 36V 48V **CONSTANT CURRENT REGION Note.6** 10.5 ~ 15V 25.2 ~ 36V 33.6 ~ 48V 6.3 ~ 9V 8.4 ~ 12V 14 ~ 20V 16.8 ~ 24V 18.9 ~ 27V RATED CURRENT 3.3A 2.5A 2A 1.5A 1.25A 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 RIPPLE & NOISE (max.) Note.2 2.6Vp-p 2Vp-p 2.6Vp-p 2.4Vp-p 2.3Vp-p 3.6Vp-p 3.7Vp-p 2.6Vp-p **OUTPUT** VOLTAGE ADJ. RANGE Note.5 8.55 ~ 9.9V 14.5 ~ 16.5V 22.8 ~ 26.4V 25.65 ~ 29.7V 34.2 ~ 39.6V 11.4 ~ 13.2V 19 ~ 22V 45.6 ~ 52.8V **CURRENT ADJ. RANGE Note.5** | 2.475 ~ 3.399A | 1.875 ~ 2.575A | 1.5 ~ 2.06A 1.125 ~ 1.545A | 0.938 ~ 1.288A | 0.84 ~ 1.1536A | 0.63 ~ 0.865A $0.473 \sim 0.649A$ VOLTAGE TOLERANCE Note.3 ±10% LINE REGULATION ±3.0% LOAD REGULATION +5.0% **SETUP TIME** 1500ms / 230VAC 3000ms / 115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC **FREQUENCY RANGE** 47 ~ 63Hz PF ≥ 0.9 at 75 ~ 100% load, 115VAC / 230VAC **POWER FACTOR** INPUT EFFICIENCY(Typ.) 82.5% 83.5% 84% 84% 84.5% 85.5% 80% **AC CURRENT** 0.4A/115VAC 0.2A/230VAC **INRUSH CURRENT(max.)** 40A/230VAC LEAKAGE CURRENT <0.5mA / 240VAC 100 ~ 110% **OVER CURRENT** Note.4 Protection type: Constant current limiting, recovers automatically after fault condition is removed SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 14 ~ 16V 17 ~ 22V 23 ~ 26V 31 ~ 35V 40 ~ 50V 53 ~ 63V **OVER VOLTAGE** 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 **WORKING TEMP.** -30 ~ +50°C (Refer to output load derating curve) 20 ~ 95% RH non-condensing **WORKING HUMIDITY** STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH ENVIRONMENT **TEMP. COEFFICIENT** ±0.06%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS TUV EN61347-1, EN61347-2-13 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC SAFETY & ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH EMC **EMI CONDUCTION & RADIATION** Compliance to EN55015 HARMONIC CURRENT Compliance to EN61000-3-2 Class C (Pin ≥ 25W), Class D (>70% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A EMS IMMUNITY MTBF 625.5Khrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 160*46*30mm (L*W*H) 0.2Kg; 70pcs/15Kg/0.96CUFT . All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf 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.









■ Derating Curve

