

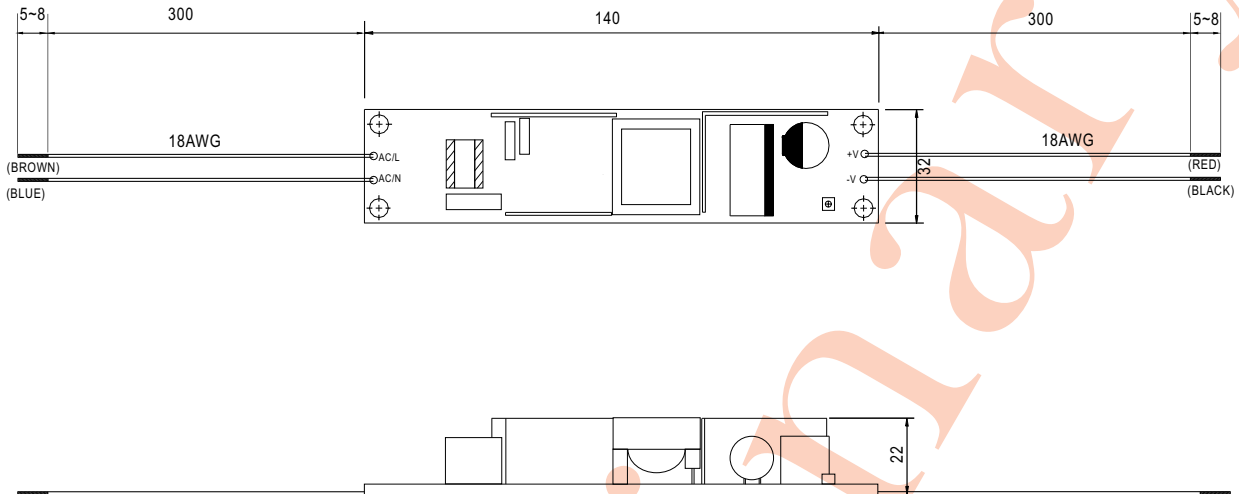
- Features :
 - Constant current and constant voltage mode power supply
 - Universal AC input / Full range
 - Protections:Short circuit/Over load/Over voltage/Over temperature
 - Built-in PFC (single stage)
 - Small and compact size
 - Cooling by free air convection
 - 100% full load burn-in test
 -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


SPECIFICATION

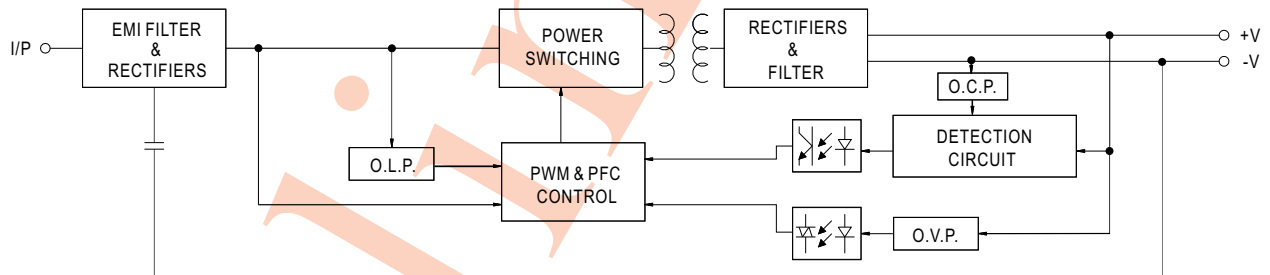
| MODEL | | PLP-20-12 | PLP-20-18 | PLP-20-24 | PLP-20-36 | PLP-20-48 |
|--------------|------------------------------|---|------------|------------|------------|------------|
| OUTPUT | DC VOLTAGE | 12V | 18V | 24V | 36V | 48V |
| | LED OPERATION VOLTAGE Note.5 | 8 ~ 12V | 12 ~ 18V | 16 ~ 24V | 25 ~ 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 | | | | | |
| | DIMENSION | 140*32*22(L*W*H) | | | | |
| | PACKING | 0.12kg;60pcs/9.2kg/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

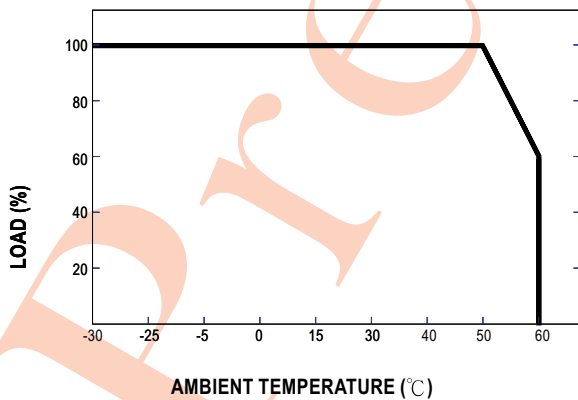
Case No. Unit:mm



Block Diagram



Derating Curve



OLP Characteristics

