

■ Features :

- 90-132VAC input only
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Pass LPS
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- High reliability / Low cost
- 2 years warranty

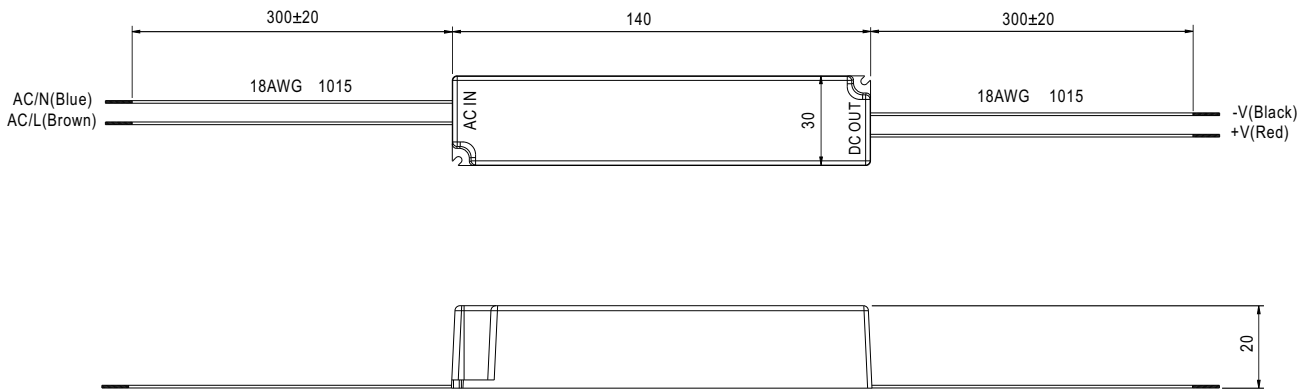
SPECIFICATION



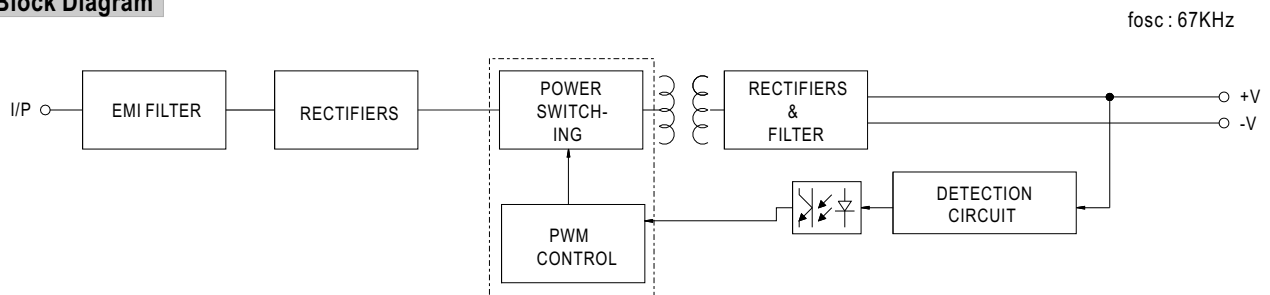
| MODEL | | LPLC-18-350 | LPLC-18-700 |
|-----------------------|--|---|---------------|
| OUTPUT | DC VOLTAGE | 48V | 25V |
| | DC VOLTAGE RANGE | 6~48V | 6~25V |
| | RATED CURRENT | 350mA | 700mA |
| | RATED POWER | 16.8W | 17.5W |
| | RIPPLE & NOISE (max.) Note.2 | 300mVp-p | 250mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | |
| | LINE REGULATION | ±1.0% | |
| | LOAD REGULATION | ±3.0% | |
| | SETUP, RISE TIME | 3600ms, 150ms / 115VAC | |
| HOLD UP TIME (Typ.) | 20ms/115VAC at full load | | |
| INPUT | VOLTAGE RANGE | 90 ~ 132VAC | |
| | FREQUENCY RANGE | 47 ~ 63Hz | |
| | EFFICIENCY(Typ.) | 82% | 80% |
| | AC CURRENT | 0.5A/115VAC | |
| | INRUSH CURRENT(max.) | Cold start 40A/115VAC | |
| LEAKAGE CURRENT | 0.25mA / 120VAC | | |
| PROTECTION | CURRENT LIMIT Note.4 | ±5% rated output current Protection type : Constant current limiting type | |
| | OVER VOLTAGE | 50.4~ 60V | 28.75~ 33.75V |
| | OVER TEMPERATURE | Tj 140 t ypically (U1) Detect on main control IC Protection type : Hiccup mode, recovers automatically after temperature goes down | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ 70°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 | ±0.2%/°C (0 ~ 50°C) | |
| VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS | Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, IP67 approved | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class A FCC part15 | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | |
| EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A | | |
| OTHERS | MTBF | 1200.6K hrs min. MIL-HDBK-217F (25) | |
| | DIMENSION | 140*30*20(L*W*H) | |
| | PACKING | 0.175Kg; 70pcs/13.3Kgs/0.66CUFT | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 115VAC 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. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directive | | |

Mechanical Specification

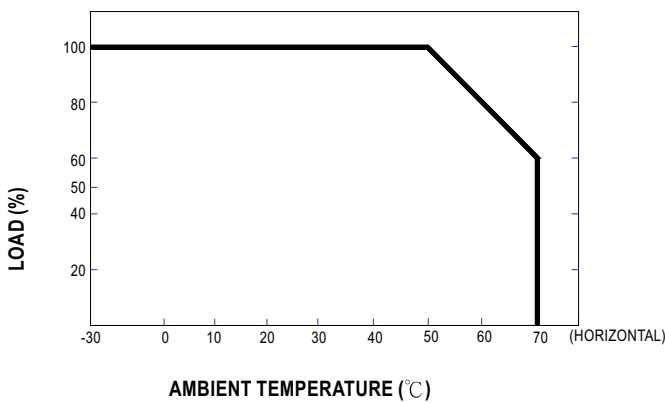
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

