



■ Features :

- Constant current design
- 180~305VAC input only
- High efficiency up to 90%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.6)
- Fully isolated plastic case
- Class II power unit, no FG
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.9)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty (Note.4)

User's Manual



IS 15885(Part 2/Sec13)

R-41027766

IP67 (for 700mA, 1050mA, 1400mA, 2800mA only)

EAC CE UK CB

SPECIFICATION

| MODEL | | LPC-150-350 | LPC-150-500 | LPC-150-700 | LPC-150-1050 | LPC-150-1400 | LPC-150-1750 | LPC-150-2100 | LPC-150-2450 | LPC-150-2800 | LPC-150-3150 |
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| OUTPUT | RATED CURRENT | 350mA | 500mA | 700mA | 1050mA | 1400mA | 1750mA | 2100mA | 2450mA | 2800mA | 3150mA |
| | CURRENT ACCURACY | ±5.0% | | | | | | | | | |
| | CONSTANT CURRENT REGION <small>Note.5</small> | 215 ~ 430V | 150 ~ 300V | 107V ~ 215V | 72V ~ 144V | 54V ~ 108V | 43V ~ 86V | 36V ~ 72V | 31V ~ 62V | 27V ~ 54V | 24V ~ 48V |
| | RATED POWER | 150.5W | 150W | 150.5W | 151.2W | 151.2W | 150.5W | 151.2W | 151.9W | 151.2W | 151.2W |
| | RIPPLE CURRENT | ±5% | | | | | | | | | |
| | RIPPLE & NOISE | 2Vp-p | 1.5Vp-p | 1Vp-p | 1Vp-p | 1Vp-p | 1Vp-p | 1Vp-p | 1Vp-p | 1Vp-p | 1Vp-p |
| | VOLTAGE TOLERANCE | ±2.0% | | | | | | | | | |
| | LINE REGULATION | ±1% | | | | | | | | | |
| | SETUP, RISE TIME | 1000ms, 80ms / 230VAC at full load | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms/230VAC at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE <small>Note.2</small> | 180 ~ 305VAC | | 254VDC ~ 431VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | EFFICIENCY (Typ.) | 90% | | | | | | | | | |
| | AC CURRENT (Typ.) | 1.7 A / 230VAC | | 1.5A / 277VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 40A(twidth=750µs measured at 50% Ipeak) at 230VAC | | | | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | | | | | | | | |
| | LEAKAGE CURRENT | <0.25mA / 277VAC | | | | | | | | | |
| PROTECTION | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| | OVER VOLTAGE | 440 ~ 470V | 330 ~ 365V | 235 ~ 265V | 158 ~ 188V | 115 ~ 135V | 96 ~ 115V | 80 ~ 97V | 69 ~ 80V | 63 ~ 75V | 55 ~ 65V |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +50℃ (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | 10 ~ 95% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +70℃, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 50℃) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | BIS IS15885(for 700mA,1050mA,1400mA,2800mA only), EAC TP TC 004, IP67;IEC 62368-1 approved;Design refer to BS EN/EN62368-1 | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH | | | | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032(CISPR32) Class B; BS EN/EN61000-3-2 Class A(≤80% load); BS EN/EN61000-3-3, EAC TP TC 020 | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level , criteria A, EAC TP TC 020 | | | | | | | | | |
| OTHERS | MTBF | 479K hrs min. MIL-HDBK-217F (25℃) | | | | | | | | | |
| | DIMENSION | 191*63*37.5mm (L*W*H) | | | | | | | | | |
| | PACKING | 0.74Kg; 20pcs/15.8Kg/0.95CUFT | | | | | | | | | |
| NOTE | <div>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</div> <div>2. Derating may be needed under low input voltages. Please check the static characteristics for more details.</div> <div>3. 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.</div> <div>4. Refer to warranty statement.</div> <div>5. Constant current operation region is within 50% ~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.</div> <div>6. Suitable for indoor use or outdoor use without direct sunlight exposure, please avoid immerse in the water over 30minutes.</div> <div>7. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).</div> <div>8. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</div> <div>9. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)</div> <div>10. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains.</div> <div>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</div> | | | | | | | | | | |

