

Наличие и актуальные цены на

PLC-100-24

https://www.mean-well.ru/store/PLC-100-24/



■ GTIN CODE

SPECIFICATION



MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Features :

- Universal AC input / Full range
- High efficiency up to 88.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- Class 2 power unit
- Pass LPS
- · 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications
- · Compliance to worldwide safety regulations for lighting
- 2 years warranty











User's Manual

MODEL PLC-100-15 PLC-100-36 PLC-100-48 PLC-100-12 PLC-100-20 PLC-100-24 PLC-100-27 DC VOLTAGE 12V 20V 24V 36\ 48V CONSTANT CURRENT REGION Note.4 9 ~ 12V 11.25 ~ 15V 15 ~ 20V 18 ~ 24V 20.25 ~ 27V 27 ~ 36V 36 ~ 48V RATED CURRENT 4.8A 4A 3.55A 2.65A 2A Note.6 5A 5A **CURRENT RANGE** 0 ~ 4.8A 0 ~ 2.65A Note.6 0 ~ 5A 0 ~ 5A 0 ~ 4A 0 ~ 3.55A 0 ~ 2A RATED POWER 95.85W 95.4W Note.6 60W 96W 96W 96W 75W 150mVp-p 150mVp-p 150mVp-p 150mVp-p 200mVp-p RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p OUTPUT 17 ~ 20V 20 4 ~ 24V VOLTAGE ADJ. RANGE(Vo ADJ) 10.2 ~ 12V 12.8 ~ 15V 23 ~ 27V 30.6 ~ 36V 40.8 ~ 48V 3.75 ~ 5A CURRENT ADJ. RANGE(Io ADJ) 3.75 ~ 5A 3.6 ~ 4.8A 3~4A 2.6 ~ 3.55A 2~2.65A 1.5 ~ 2A VOLTAGE TOLERANCE Note.3 ±3.0% ±3.0% ±3.0% ±3.0% ±3.0% ±2.0% ±2.0% LINE REGULATION ±1.0% LOAD REGULATION +2 0% SETUP. RISE TIME 500ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load HOLD UP TIME (Typ.) 60ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC Note.5 **FREQUENCY RANGE** 47 ~ 63Hz PF>0.95/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve) POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION THD< 20% when output loading ≥75% at 115VAC/230VAC input **INPUT EFFICIENCY (Typ.)** 83% 88 5% 88% 88% 88.5% AC CURRENT (Typ.) 12V:0.8A/115VAC 0.4A/230VAC 15V:0.9A/115VAC 0.45A/230VAC 20V ~ 48V:1.1A/115VAC 0.55A/230VAC INRUSH CURRENT (Typ.) COLD START 40A(twidth=950us measured at 50% lpeak) at 230VAC MAX. No. of PSUs on 16A 3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC **CIRCUIT BREAKER** LEAKAGE CURRENT <0.75mA/240VAC 95 ~ 102% OVER CURRENT (Typ.) Note.4 Protection type: Constant current limiting, recovers automatically after fault condition is removed 39 ~ 48V 27 ~ 34V **PROTECTION OVER VOLTAGE** Protection type: Shut down and latch off o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, re-power on to recover -30 ~ +50°C (Refer to "Derating Curve") WORKING TEMP 20 ~ 95% RH non-condensing **WORKING HUMIDITY** ${\bf STORAGE\ TEMP.,\ HUMIDITY}$ **ENVIRONMENT** -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes UL1310, TUV BS EN/EN60950-1, BS EN/EN61347-1, BS EN/EN61347-2-13, GB19510.14, GB19510.1, SAFETY STANDARDS Note.7 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SAFETY & ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / $25^{\circ}C$ / 70% RH **EMC** Compliance to BS EN/EN55015, GB/T 17743, GB17625.1, BS EN/EN61000-3-2,-3, Class C (≥70% load); BS EN/EN61000-3-3, **EMC EMISSION** EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55035, light industry level, (surge 4KV), **EMC IMMUNITY** EAC TP TC 020 MTBF Telcordia SR-332 (Bellcore) ; 297.9Khrs min. 2688.3K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 200.5*69.5*35mm (L*W*H) 0.52Kg; 25pcs/14Kg/0.65CUFT **PACKING**

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.

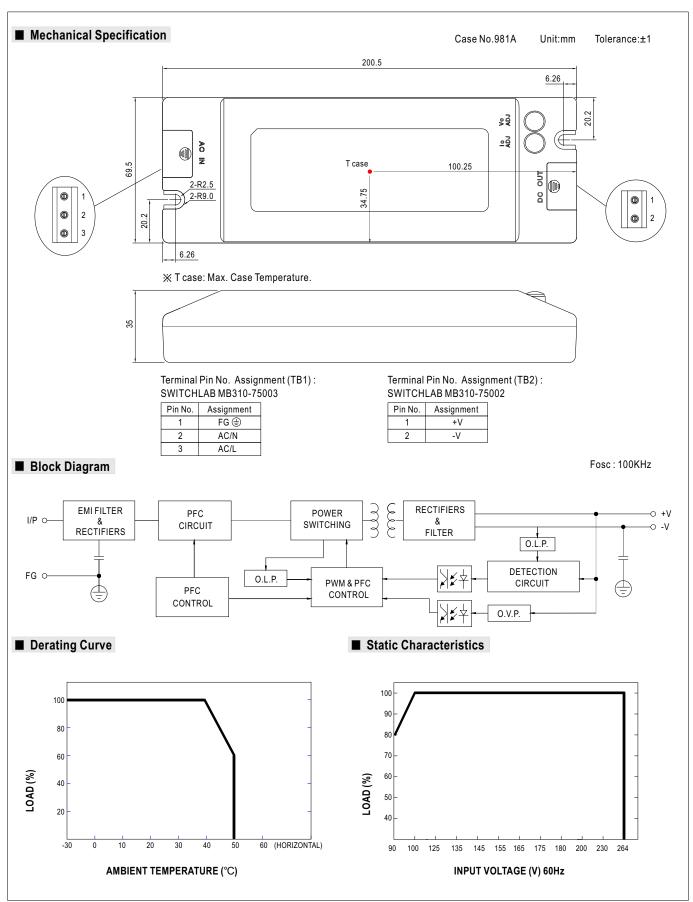
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
 4. Please refer to "DRIVING METHODS OF LED MODULE".
 5. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 6. This is the maximum possible output current and power. Over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2. 7. Safety and EMC design refer to BS EN/EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
- 8. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

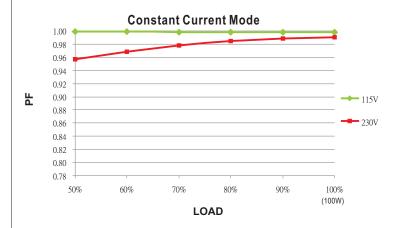
 11. PLC-100-12 is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be
- use for signalling products (including, but not limited to road-, railway-, marineorair traffic-signalling, traffic control or airfield lamps)
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





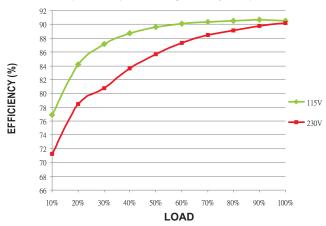


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

PLC-100 series possess superior working efficiency that up to 88.5% can be reached in field applications.

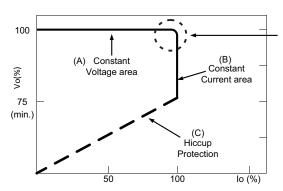


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.