

Наличие и актуальные цены на

**PLC-45-12** 

https://www.mean-well.ru/store/PLC-45-12/





#### ■ Features :

- Universal AC input / Full range
- · Adjustable output voltage and current level
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Fully isolated plastic case with terminal block style of I/O
- Built-in active PFC function, comply with BS EN/EN61000-3-2 class C (≥75% load)
- · Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- High reliability
- · Suitable for LED lighting and moving sign applications

M SELV LPS P AL AL US

- Compliance to worldwide safety regulations for lighting
- · 2 years warranty

# ■ GTIN CODE

**SPECIFICATION** 

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



FAI CB C € LK

BAUART GEPRUFT
TYPE

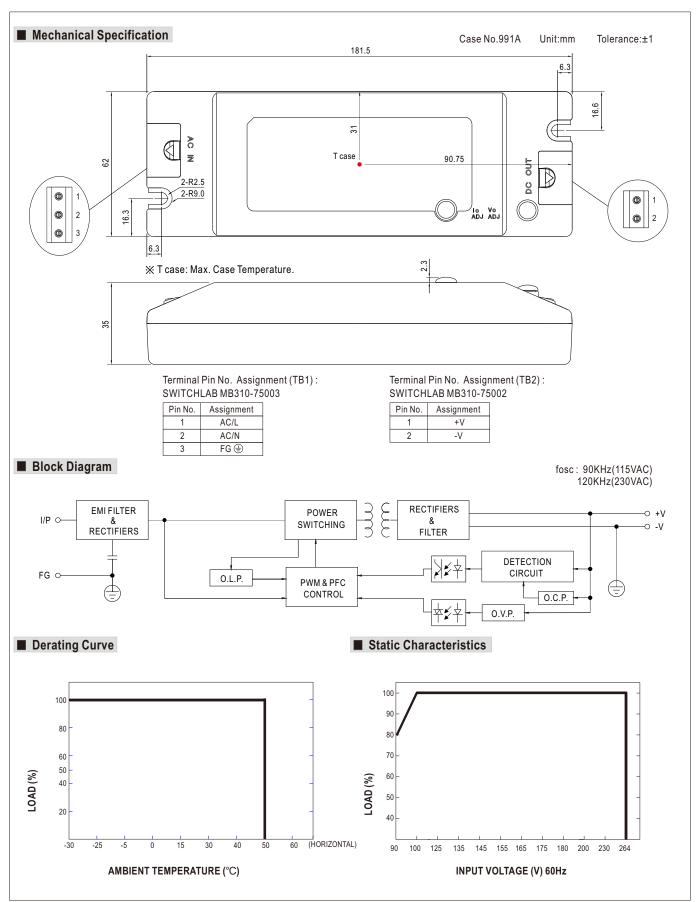
#### MODEL PLC-45-12 PLC-45-15 PLC-45-20 PLC-45-24 PLC-45-27 PLC-45-48 DC VOLTAGE 12V 15V 20V 24V 27V 36V 48V 27 ~ 36V 36 ~ 48V CONSTANT CURRENT REGION Note.6 9 ~ 12V 11.25 ~15V 15 ~ 20V 18~24V 20.25 ~27V RATED CURRENT 2.3A 1.25A 0.95A 3A 1.9A 1.7A **CURRENT RANGE** 0~3.8A $0 \sim 3A$ $0 \sim 2.3A$ 0 ~ 1.9A $0 \sim 1.7A$ 0 ~ 1.25A 0~0.95A RATED POWER 45.6W 45W 46W 45.6W 45.9W 45W 45.6W RIPPLE & NOISE (max.) Note.2 2.4Vp-p 1.8Vp-p 2.7Vp-p 2.7Vp-p 3.6Vp-p 4.6Vp-p 2Vp-p **OUTPUT** VOLTAGE ADJ. RANGE Note.5 11.5 ~ 13V 14.5 ~ 16.2V 19.5 ~ 22V 24 ~ 26V 25 ~ 30V 32.5 ~ 39V 43.6 ~ 51.8V CURRENT ADJ. RANGE Note.5 2.85 ~ 3.914A $2.25 \sim 3.1A$ 1.725 ~ 2.37A 1.425 ~1.957A 1.275 ~ 1.75A 0.938 ~ 1.288A 0.713 ~ 0.979A **VOLTAGE TOLERANCE Note.3** ±10% LINE REGULATION LOAD REGULATION ±5.0% **SETUP TIME** 500ms / 230VAC 1200ms / 115VAC at full load 90 ~ 264VAC 127 ~ 370VDC **VOLTAGE RANGE** Note.4 **FREQUENCY RANGE** 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.92/115VAC, PF>0.9/230VAC at full load (Please refer to "Power Factor Characteristic" curve) THD< 20% when output loading≧75% at 115VAC/230VAC input TOTAL HARMONIC DISTORTION INPUT **EFFICIENCY** (Typ.) 87.5% 84.5% 85% 86.5% 86.5% 86.5% 87.5% AC CURRENT (Typ.) 0.55A/115VAC 0.25A/230VAC INRUSH CURRENT (Typ.) COLD START 35A(twidth=50us measured at 50% Ipeak) at 230VAC MAX. No. of PSUs on 16A 42 units (circuit breaker of type B) / 42 units (circuit breaker of type C) at 230VAC **CIRCUIT BREAKER** LEAKAGE CURRENT <0.75mA / 240VAC 95 ~ 110% OVER CURRENT Protection type: Constant current limiting, recovers automatically after fault condition is removed SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed. 17.5 ~ 21V 22.8 ~ 25V 31 ~ 35V 41 ~ 46V 54 ~ 60V **PROTECTION OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover **OVER TEMPERATURE** Shut down o/p voltage, recovers automatically after temperature goes down -30 ~ +50°C (Refer to "Derating Curve") WORKING TEMP 20 ~ 95% RH non-condensing WORKING HUMIDITY -40 ~ +80°C, 10 ~ 95% RH ENVIRONMENT STORAGE TEMP., HUMIDITY 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/EN61347-1, BS EN/EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V), SAFETY STANDARDS EAC TP TC 004 approved **SAFETY &** WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **EMC ISOLATION RESISTANCE** I/P-O/P:100M Ohms / 500VDC / $25^{\circ}$ C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧75% load) ; BS EN/EN61000-3-3,EAC TP TC 020 **EMC EMISSION EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024,BS EN/EN61547, light industry level, EAC TP TC 020 MTBF 3444.5K hrs min. Telcordia SR-332 (Bellcore) 417.1Khrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 181.5\*62\*35mm (L\*W\*H) **PACKING** 0.41Kg; 30pcs/13.3Kg/0.67CUFT 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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. NOTE

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8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
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).

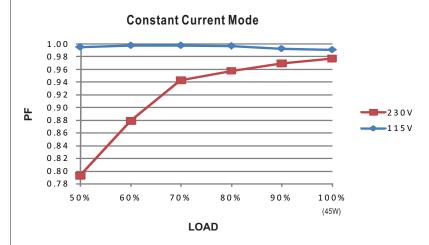
Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





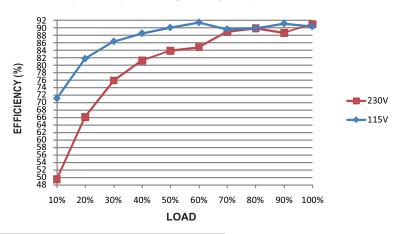


## ■ Power Factor Characteristic



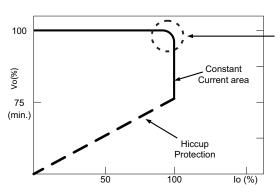
# ■ EFFICIENCY vs LOAD (48V Model)

PLC-45 series possess superior working efficiency that up to 87.5% can be reached in field applications.



## ■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



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.