

Наличие и актуальные цены на

# PLC-45-27

https://www.mean-well.ru/store/PLC-45-27/



### 45W Single Output LED Power Supply

# PLC-45 series



#### GTIN CODE

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

#### 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  $(\geq$ 75% load)
- · 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
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File Name:PLC-45-SPEC 2024-09-25

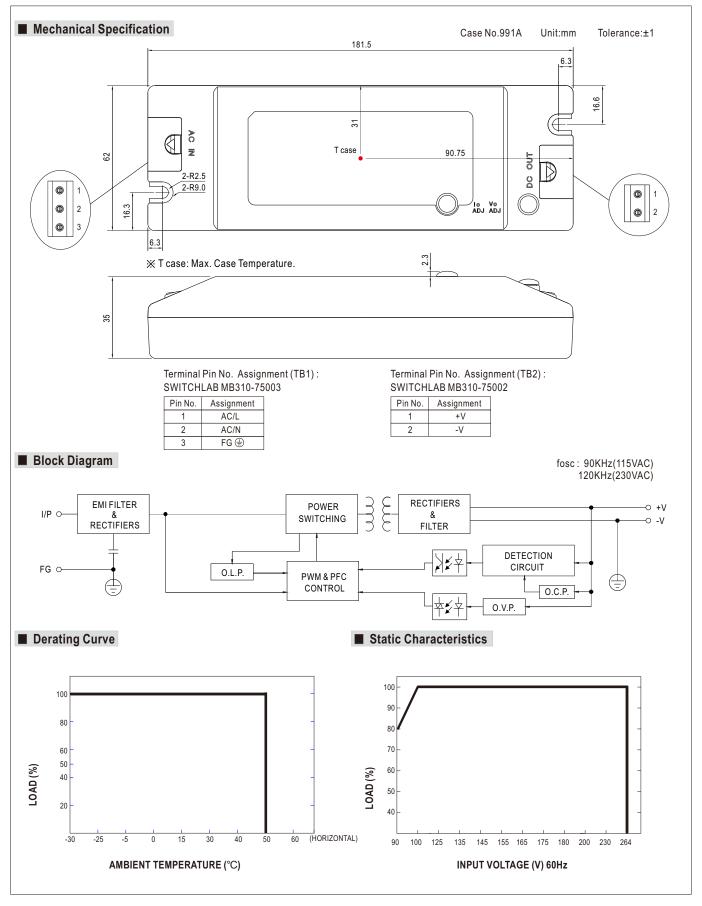
User's Manual

PECIFIC		PLC-45-12	PLC-45-15	PLC-45-20	PLC-45-24	PLC-45-27	PLC-45-36	PLC-45-48
IUDEL								
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V
	CONSTANT CURRENT REGION Note.6		11.25~15V	15~20V	18~24V	20.25~27V	27 ~ 36V	36~48V
	RATED CURRENT	3.8A	3A	2.3A	1.9A	1.7A	1.25A	0.95A
	CURRENT RANGE	0~3.8A	0~3A	0~2.3A	0~1.9A	0~1.7A	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
	VOLTAGE ADJ. RANGE Note.5		14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25~30V	32.5 ~ 39V	43.6 ~ 51.8V
	CURRENT ADJ. RANGE Note.5		2.25 ~ 3.1A	1.725 ~ 2.37A	1.425~1.957A	1.275 ~ 1.75A	0.938 ~ 1.288A	0.713 ~ 0.979/
	VOLTAGE TOLERANCE Note.3							
	LINE REGULATION	±3.0%						
	LOAD REGULATION	±5.0%						
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load						
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC						
	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)						
	TOTAL HARMONIC DISTORTION	THD<20% when output loading≧75% at 115VAC/230VAC input						
	EFFICIENCY (Typ.)	84.5%	85%	86.5%	86.5%	86.5%	87.5%	87.5%
	AC CURRENT (Typ.)	0.55A/115VAC 0.25A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=50µs measured at 50% lpeak) at 230VAC						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	42 units (circuit breaker of type B) / 42 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
PROTECTION	OVER CURRENT	95 ~ 110%						
		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.						
	SHORT CIRCUIT	13.8 ~ 16V	17.5 ~ 21V	22.8 ~ 25V	28 ~ 32V	31~35V	41~46V	54 ~ 60V
	OVER VOLTAGE					31~35V	41~40V	54~000
		Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	-30 ~ +50℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-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						
	SAFETY STANDARDS	UL1310, TUV BS EN/EN61347-1, BS EN/EN61347-2-13, 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						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧75% 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,BS EN/EN61547, light industry level, EAC TP TC 020						
OTHERS	MTBF	3444.5K hrs min. Telcordia SR-332 (Bellcore) 417.1Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	181.5*62*35mm (L*W*H)						
	PACKING	0.41Kg; 30pcs/	13.3Kg/0.67CUF1	ſ				
OTE	<ol> <li>Ripple &amp; noise are measured at 20M</li> <li>Tolerance : includes set up tolerance</li> <li>Derating may be needed under low i</li> <li>Output voltage can be adjusted throu.</li> <li>Please refer to "DRIVING METHODS".</li> <li>The power supply is considered as a complete installation, the final equipn (as available on https://www.meanwe</li> <li>Direct connecting to LEDs is suggest</li> </ol>	input voltage. Please check the static characteristics for more details. ugh the SVR1 on the PCB ; limit of output constant current level can be adjusted through the SVR2 on the PCB.						

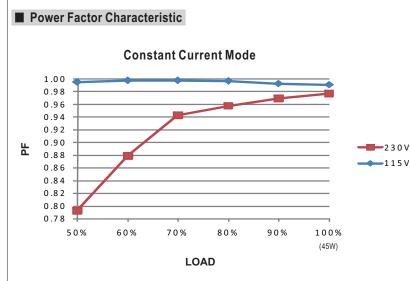


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## PLC-45 series

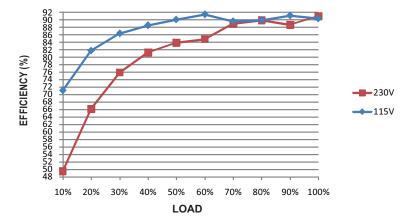






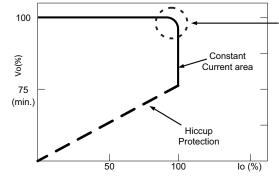
#### EFFICIENCY vs LOAD (48V Model)

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.