

Наличие и актуальные цены на

PLC-100-20

https://www.mean-well.ru/store/PLC-100-20/



100W Single Output Switching Power Supply

PLC-100 series

User's Manual



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



GTIN CODE
MMA Coorden http

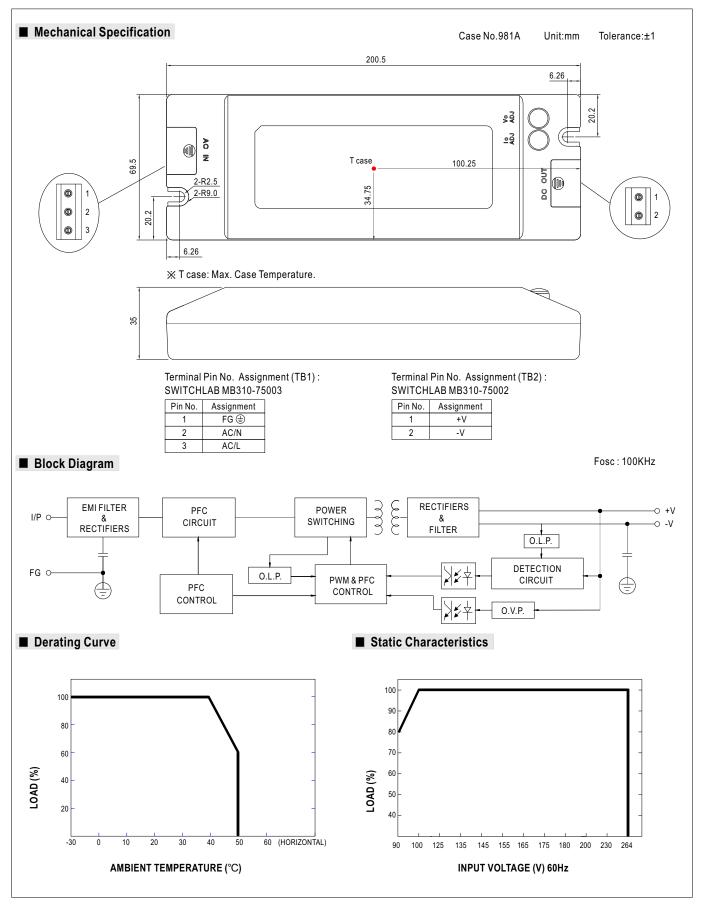
MW Search: https://www.meanwell.com/serviceGTIN.aspx

MODEL		PLC-100-12	PLC-100-15	PLC-100-20	PLC-100-24	PLC-100-27	PLC-100-36	PLC-100-48	
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V	
OUTPUT	CONSTANT CURRENT REGION Note.4		11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36~48V	
	RATED CURRENT Note.6		5A	4.8A	4A	3.55A	2.65A	2A	
		0~5A	0~5A	0~4.8A	0~4A	0~3.55A	0~2.65A	0~2A	
	RATED POWER Note.6		75W	96W	96W	95.85W	95.4W	96W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE(Vo ADJ)		12.8 ~ 15V	17 ~ 20V	20.4 ~ 24V	23 ~ 27V	30.6 ~ 36V	40.8 ~ 48V	
	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%	±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							
INPUT		90 ~ 264VAC	127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.95/115VAC, PF>0.95/230VAC 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.)	83%	87%	88.5%	88.5%	88%	88%	88.5%	
	AC CURRENT (Typ.)	12V:0.8A/115V	AC 0.4A/230VAC	C 15V:0.9A/11	5VAC 0.45A/230	VAC 20V~48	8V:1.1A/115VAC	0.55A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 40A(twidth=950µs measured at 50% lpeak) at 230VAC							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/240VAC							
PROTECTION		95 ~ 102%							
	OVER CURRENT (Typ.) Note.4	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
		$13 \sim 16V \qquad 16.5 \sim 20V \qquad 22 \sim 27V \qquad 27 \sim 34V \qquad 30 \sim 36V \qquad 39 \sim 48V \qquad 52 \sim 64V$							
	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							
	WORKING TEMP.	-30 ~ +50°C (Refer to "Derating Curve")							
		20 ~ 95% RH non-condensing							
ENVIRONMENT	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 Note.7	UI 1310 TUV BS EN/EN60950-1 BS EN/EN61347-1 BS EN/EN61347-2-13 GB19510 14 GB19510 1							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
AFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
EMC	EMC EMISSION	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, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55035, light industry level, (surge 4KV), EAC TP TC 020							
OTHERS	MTBF	2688.3K hrs min. Telcordia SR-332 (Bellcore); 297.9Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	200.5*69.5*35mm (L*W*H)							
	PACKING	0.52Kg; 25pcs/	14Kg/0.65CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. Safety and EMC design refer to BS EN/EN60598-1, subject 8750(UL), CN515233, GB7000.1, FCC part18. 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/EML statement_en.pdf) To fulfill requirements of the latest Err 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 equipment, for example this model could be use for signalling products (including, but not limited to road-, railway-, manineorair traffic-signalling , traffic control or airfield lamps). Erro detailed information please refer to https://wmeanwell.com/lamba. 								

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



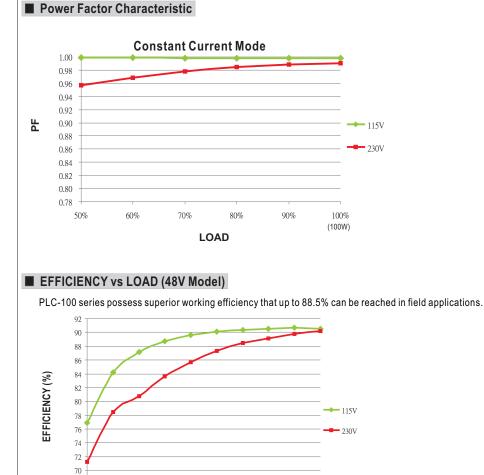
PLC-100 series



File Name: PLC-100-SPEC 2024-09-25



PLC-100 series



30% LOAD

68 66 10% 20%

DRIVING METHODS OF LED MODULE

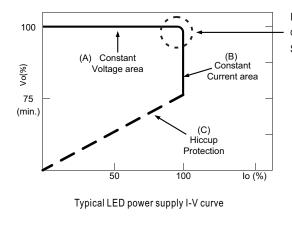
40% 50% 60%

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

70% 80% 90% 100%

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)].



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.