



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



SPECIFICATION

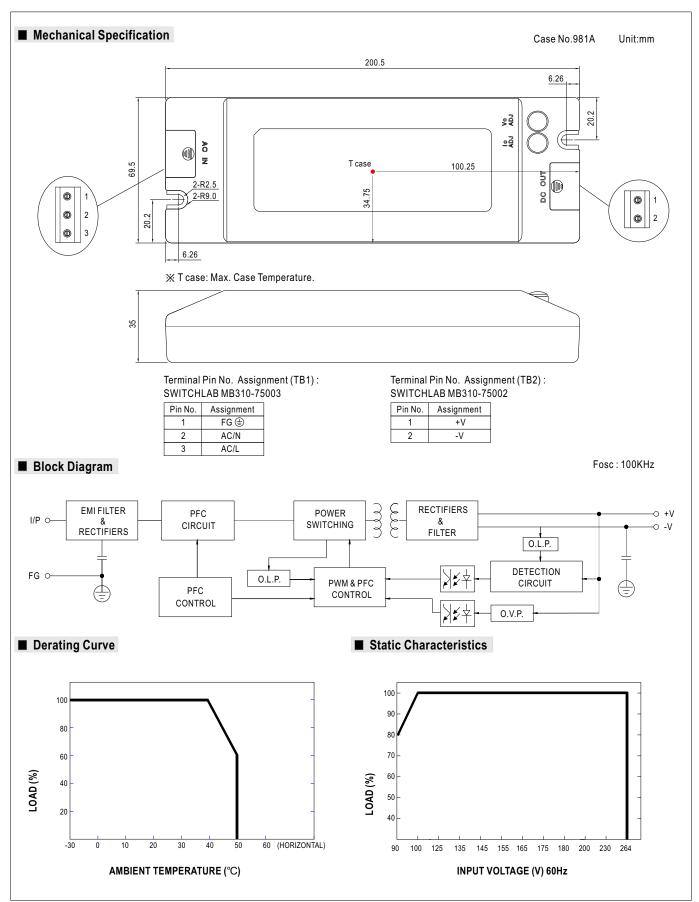
■ GTIN CODE

EEE CB C E US M SELV LPS (F) ((()

MARE							N61347-1,-2-13	
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
ОИТРИТ	CONSTANT CURRENT REGION Note.4	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36 ~ 48V
	RATED CURRENT Note.6	5A	5A	4.8A	4A	3.55A	2.65A	2A
	CURRENT RANGE Note.6	0 ~ 5A	0 ~ 5A	0 ~ 4.8A	0 ~ 4A	0 ~ 3.55A	0 ~ 2.65A	0 ~ 2A
	RATED POWER Note.6	60W	75W	96W	96W	95.85W	95.4W	96W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE(Vo ADJ)	10.2 ~ 12V	12.8 ~ 15V	17 ~ 20V	20.4 ~ 24V	23 ~ 27V	30.6 ~ 36V	40.8 ~ 48V
	CURRENT ADJ. RANGE(Io ADJ)	3.75 ~ 5A	3.75 ~ 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%						l
	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						
		PF>0.95/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	POWER FACTOR (Typ.)	THD< 20% when output loading≧75% at 115VAC/230VAC input						
	TOTAL HARMONIC DISTORTION				· · · · · · · · · · · · · · · · · · ·	000/	000/	00.50/
	EFFICIENCY (Typ.)	83%	87%	88.5%	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=950µs measured at 50% Ipeak) 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						
		95 ~ 102%						
PROTECTION	OVER CURRENT (Typ.) Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed						
		13 ~ 16V						
	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						
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to "Derating Curve")						
		20 ~ 95% RH non-condensing						
	WORKING HUMIDITY							
	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 & EMC	SAFETY STANDARDS Note.7	UL1310, TUV BS EN/EN60950-1, BS EN/EN61347-1, BS EN/EN61347-2-13, GB19510.14, GB19510.1, 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, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
	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-3	332 (Bellcore); 2	97.9Khrs min. M	11L-HDBK-217F (25	5°C)	
	DIMENSION	200.5*69.5*35m		(, ,			/	
	PACKING	0.52Kg; 25pcs/1	,					
NOTE	Ripple & noise are measured a Tolerance: includes set up tole Please refer to "DRIVING MET Derating may be needed unde This is the maximum possible of Safety and EMC design refer te The power supply is considered complete installation, the final (as available on https://www.mey To fulfill requirements of the lating the maximum parature derating the maximum para	mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Parance, line regulation and load regulation. Parance, line regulation and load regulation. Parance of LED MODULE". Parance of LED MODULE". Parance of Leon Module and protection may be activated slightly below this level to comply with the requirement of UL1310 class 2. to BS EN/EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. Parance of Leon Module and Leon Module a						

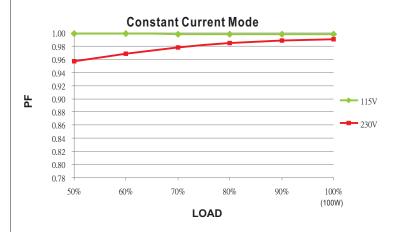
 $\hbox{$\not \times$ Product Liability Disclaimer : For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx}$$





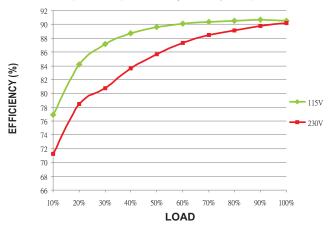


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

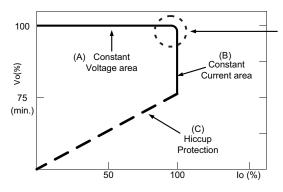


■ DRIVING METHODS OF LED MODULE

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.