



Features:

- Universal AC input / Full range(up to 277VAC)
- Protections:Short circuit/Over current/Over voltage/Over temperature
- · Cooling by free air convection
- · Built-in constant current limiting circuit with adjustable OCP level
- · Built-in active PFC function
- Class II power unit, no FG
- · Class 2 power unit
- Small and compact size
- 100% full load burn-in test
- · High reliability,low cost
- Suitable for built-in applications of LED lighting
- 2 years warranty

SPECIFICATION



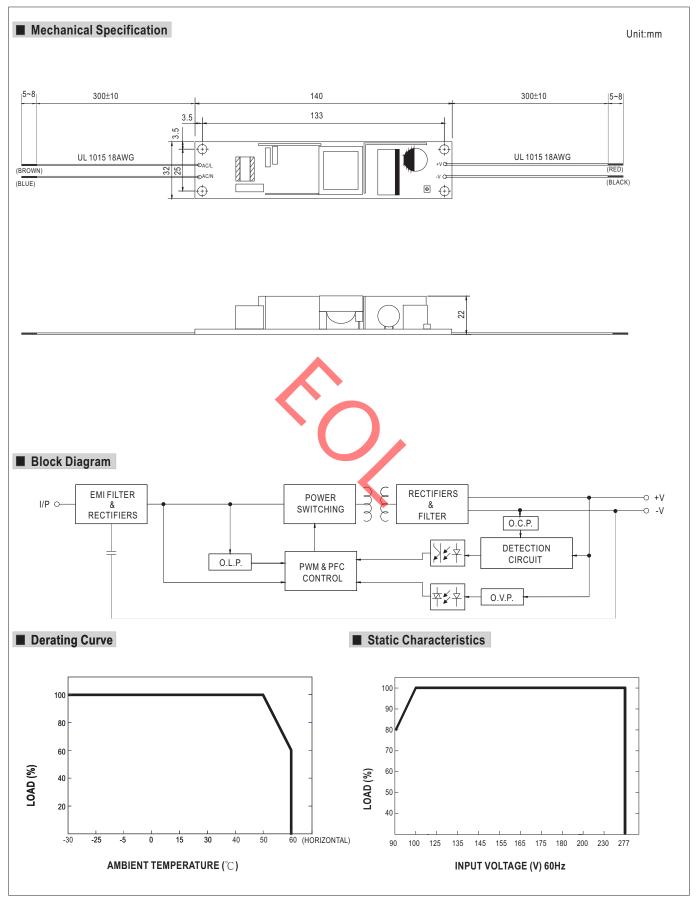
MODEL		PLP-20-12	PLP-20-18	PLP-20-24	PLP-20-36	PLP-20-48		
	DC VOLTAGE	12V	18V	24V	36V	48V		
OUTPUT	CONSTANT CURRENT REGION Note.5	9 ~ 12V	13.5 ~ 18V	18 ~ 24V	27 ~ 36V	36 ~ 48V		
	RATED CURRENT	1.6A	1.1A	0.8A	0.55A	0.42A		
	CURRENT RANGE	0 ~ 1.6A	0 ~ 1.1A	0~0.8A	0 ~ 0.55A	0 ~ 0.42A		
	CURRENT ADJ. RANGE	75% ~ 100%						
	RATED POWER	19.2W	19.8W	19.2W	19.8W	20.2W		
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p	3.0Vp-p	3.0Vp-p	3.0Vp-p	3.8Vp-p		
	VOLTAGE TOLERANCE Note.3	±10%						
	LINE REGULATION	±3.0%						
	LOAD REGULATION	±10%						
	SETUP, RISE TIME	500ms / 230VAC 2000ms / 115VAC at full load						
INPUT	VOLTAGE RANGE Note.4	90 ~ 277VAC 127~392VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF≥0.95/115VAC,PF>0.9/230VAC,PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧75% at 115VAC/230VAC input and output loading≧75% at 277VAC input						
	EFFICIENCY(Typ.)	80%	81%	82%	83%	83.5%		
	AC CURRENT	0.4A/115VAC 0.2A/2	230VAC 0.15A/277	VAC	<u>.</u>			
	INRUSH CURRENT(Typ.)	COLD START 25A(twidth=60µs measured at 50% peak) at 230VAC						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	92 units (circuit breaker of type B) / 98 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	0.5mA / 240VAC						
PROTECTION	OVED CURRENT No. 5	95 ~ 110%						
	OVER CURRENT Note.5	Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.						
	OVER VOLTAGE	14 ~ 16V	19 ~ 22V	27 ~ 34V	41 ~ 46V	54 ~ 60V		
		Protection type : Shut of	off o/p voltage, clampir	g by zener diode	<u>'</u>	'		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	-30 ~ +60°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
ENVIRONMENT		±0.06%°C (0~50°C)						
ENVIRONMENT	TEMP. COEFFICIENT	1 ±0.06%/ (0 ~ 50 ()		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
ENVIRONMENT	TEMP. COEFFICIENT VIBRATION	- (- /	./1cycle, period for 60	nin. each along X, Y, Z axe	es			
ENVIRONMENT		10 ~ 500Hz, 2G 10min.	• • •	• • •	es SA C22.2 No. 250.0-08,EA	AC TP TC 004 approved		
ENVIRONMENT	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 2G 10min.	• • •	• • •		C TP TC 004 approved		
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min. TUV EN61347-1, EN61 I/P-O/P:3.75KVAC	1347-2-13, GB19510.1	4, GB19510.1, UL8750, C		AC TP TC 004 approved		
SAFETY &	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min TUV EN61347-1, EN6 I/P-O/P:3.75KVAC I/P-O/P:100M Ohms/50	1347-2-13, GB19510.1 00VDC / 25°C / 70%RH	4, GB19510.1, UL8750, C	SA C22.2 No. 250.0-08,EA			
SAFETY &	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min TUV EN61347-1, EN61 I/P-O/P:3.75KVAC I/P-O/P:100M Ohms/5(Compliance to EN5501	1347-2-13, GB19510.1 00VDC / 25°C / 70%RH 15, GB17743, GB1762	4, GB19510.1, UL8750, C	SA C22.2 No. 250.0-08,EA	3,EAC TP TC 020		
SAFETY &	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 2G 10min TUV EN61347-1, EN6 I/P-O/P:3.75KVAC I/P-O/P:100M Ohms/51 Compliance to EN5501 Compliance to EN6100	1347-2-13, GB19510.1 00VDC / 25°C / 70%RH 15, GB17743, GB1762: 00-4-2,3,4,5,6,8,11, EN	4, GB19510.1, UL8750, C	SA C22.2 No. 250.0-08,EA	B,EAC TP TC 020		
SAFETY &	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	10 ~ 500Hz, 2G 10min TUV EN61347-1, EN6 I/P-O/P:3.75KVAC I/P-O/P:100M Ohms/50 Compliance to EN5501 Compliance to EN6100 643.6Khrs min. MIL	1347-2-13, GB19510.1 00VDC / 25°C / 70%RH 15, GB17743, GB1762	4, GB19510.1, UL8750, C	SA C22.2 No. 250.0-08,EA	B,EAC TP TC 020		
SAFETY &	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 2G 10min TUV EN61347-1, EN6 I/P-O/P:3.75KVAC I/P-O/P:100M Ohms/51 Compliance to EN5501 Compliance to EN6100	1347-2-13, GB19510.1 00VDC / 25°C / 70%RH 15, GB17743, GB1762 00-4-2,3,4,5,6,8,11, EN -HDBK-217F (25°C)	4, GB19510.1, UL8750, C	SA C22.2 No. 250.0-08,EA	B,EAC TP TC 020		

- 3. Tolerance : includes set up tolerance, line regulation and load regulation.

 4. Derating may be needed under low input voltage, please check the static characteristic for more details.

 5. Please refer to "DRIVING METHODS OF LED MODULE".
- 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 8. 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.

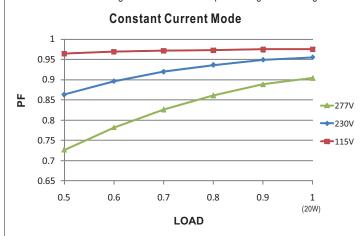






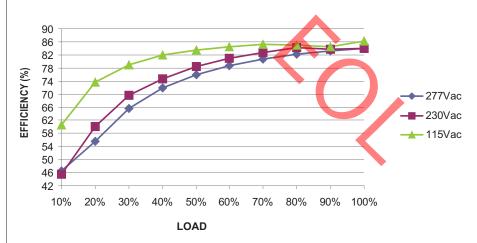
■ Power Factor Characteristic

Power factor will be higher than 0.9 when output loading is 75% or higher.



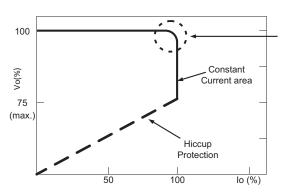
■ EFFICIENCY vs LOAD (48V Model)

PLP-20 series possess superior working efficiency that up to 83.5% 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.

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