

## 20W Single Output LED Power Supply

## PLP-20 series



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
- 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

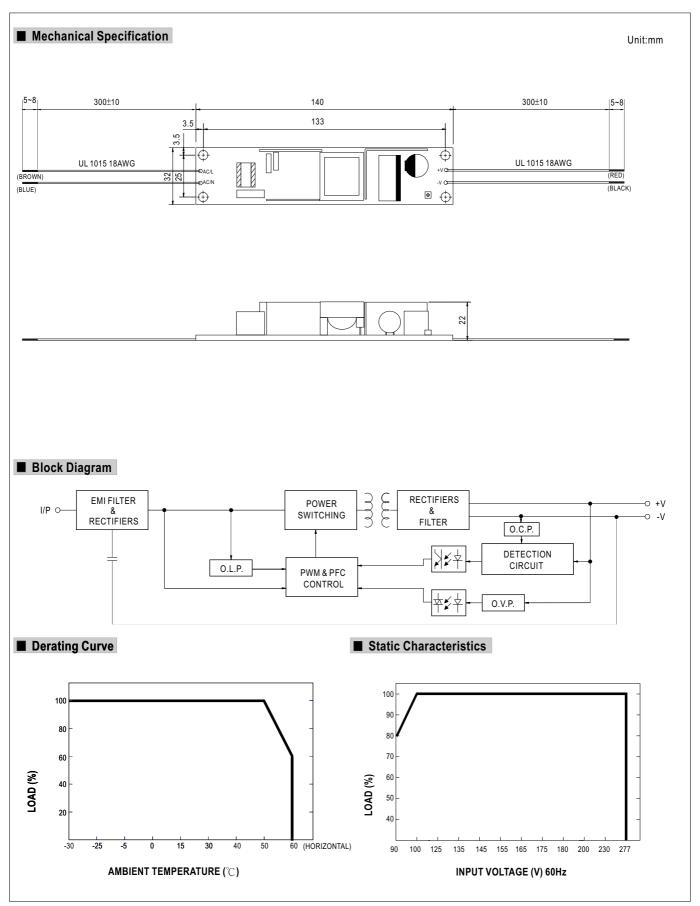


## SPECIFICATION

MODEL		PLP-20-12	PLP-20-18	PLP-20-24	PLP-20-36	PLP-20-48
	DC VOLTAGE	12V	18V	24V	36V	48V
	LED OPERATION VOLTAGE 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%				
OUTPUT	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	2300ms, 200ms / 230VAC 3000ms, 200ms / 115VAC at full load				
INPUT		90 ~ 277VAC 127~392VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF ≡ 0.9 at 75~100% load, 115VAC/230VAC;PF ≡ 0.9 at 85~100% load 277VAC (Please refer to "Power Factor Characteristic" curve				
	EFFICIENCY(Typ.)	80% 81% 82% 83% 83.5%				
	AC CURRENT	0.4A/115VAC 0.2A/230VAC 0.15A/277VAC				
	INRUSH CURRENT(max.)	40A/230VAC				
	LEAKAGE CURRENT	0.5mA / 240VAC				
PROTECTION	OVER CURRENT Note.5	95 ~ 110%				
		Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.       14 ~ 16V     19 ~ 22V     27 ~ 34V     41 ~ 46V     54 ~ 60V				
	OVER VOLTAGE	14 ~ 16V	19 ~ 22V		41 ~ 46V	54 ~ 60V
		Protection type : Shut off o/p voltage, clamping by zener diode				
	OVER TEMPERATURE	110°C ±10°C (TSW1)				
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
	WORKING TEMP.	-30 ~ +60℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.06%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	TUV EN61347-1, EN61347-2-13, UL8750, CSA C22.2 No. 250.0-08 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC / 25°C / 70%RH				
EMC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C(≧75% load); EN61000-3-3				
	EMC IMMUNITY	Compliance to EN61000-	4-2,3,4,5,6,8,11, EN61547	', light industry level, crite	ria A	
OTHERS	MTBF	643.6Khrs min. MIL-H	DBK-217F (25°C)			
	DIMENSION	140*32*22(L*W*H)				
	PACKING	0.12kg;60pcs/9.2kg/0.62	CUFT			
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ur</li> <li>Constant current operation in reconfirm special electrical r</li> <li>The power supply is considiated complete installation, the fin</li> </ol>	Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ad at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. nder low input voltage, please check the static characteristic for more details. region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. lered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. s suggested, but is not suitable for using additional drivers.				

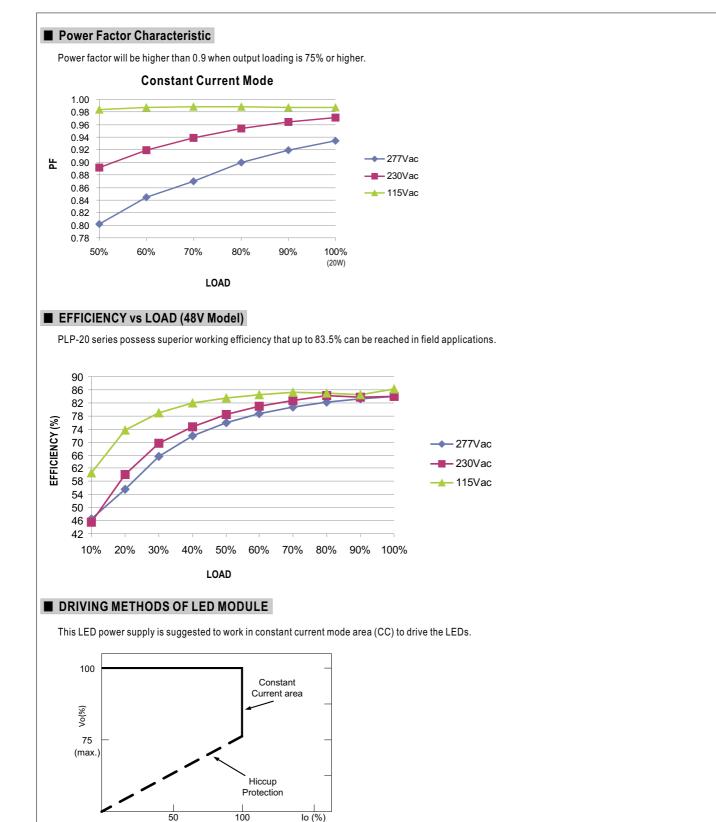


## PLP-20 series



File Name:PLP-20-SPEC 2012-03-13





Typical LED power supply I-V curve