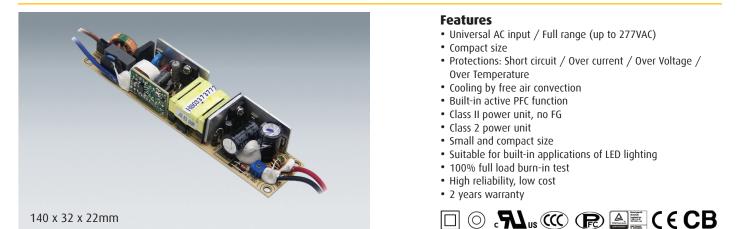
PLP-20 Series

20W Single Output Encapsulated Power Supply





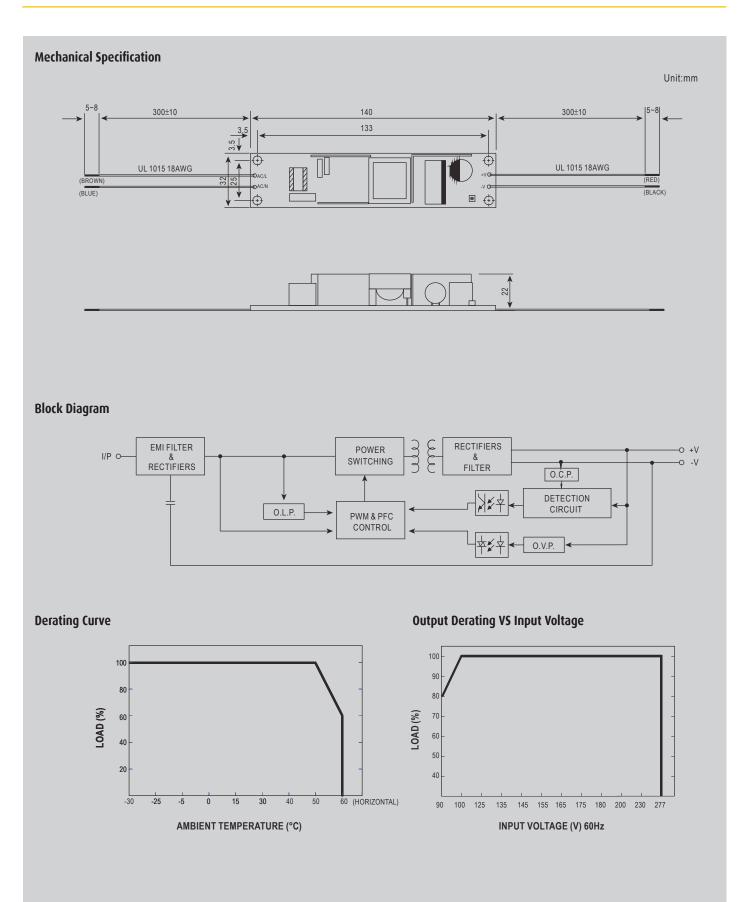
Specification

specification							
INPUT	Voltage	90 ~ 277V	127 ~ 392VDC				
	Frequency	47 ~ 63Hz					
	Power factor	PF>0.9 at 75~100% load, 115VAC/230VAC; PF>0.9 at 85~100% load 277VAC					
	Total Harmonic Distrortion	armonic Distrortion 20% when output loading ≥75% at 115VAC/230VAC input and output loading ≥75% at 277VAC load					
	AC Current	0.4A/115VAC	0.2A/230VAC	0.15A/277VAC		-	
	Efficiency	80%	81%	82%	83%	83.5%	
	Inrush Current	Cold Start 25A (twidth=60µs measu	red at 50% lpeak) at 2	230VAC		
	Max no. of PSUs on 16A Circuit Breaker	92 units (circuit breaker of type B)/98 units (circuit breker of type C) at 230VAC					
	Leakage Current	<0.5mA/240VAC					
	MODEL No.	PLP-20-12	PLP-20-18	PLP-20-24	PLP-20-36	PLP-20-48	
	DC Voltage	12V	18V	24V	36V	48V	
	Constant Current Region	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	
	R & N (max)	2.5Vp-p	3.0Vp-p	3.0Vp-p	3.0Vp-p	3.8Vр-р	
	Voltage Tolerance	±10%	±10%	±10%	±10%	±10%	
	Line Regulation	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	Load Regulation	±10%	±10%	±10%	±10%	±10%	
	Setup, Rise Time	500ms/230VAC 2000ms115VAC at full load					
PROTECTION	Over Current	95~110% rated output power					
		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	Protection Type	: Shut off o/p voltag	e, clamping by zener	diode		
	Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	Working Temperature	-30 ~ +60°C (Refer to "Derating Curve")					
	Working Humidity	20 ~ 90% RH non-condensing					
	Storage Temp.	-40°C to +80°C, 10~95% RH					
	Temp. Coefficient	±0.06%°C (0~50°C)					
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes					
SAFETY & EMC	Safety Standards	TUV EN61347-1, EN61347-2-13, GB19510.14, GB19510.1, UL8750, CSA C22.2 No. 250.0-08 approved					
	Withstand Voltage	I/P-0/P:3.75KVAC					
	Isolation Resistance	I/P-0/P:100M 0hms / 500VDC / 25°C / 70% RH					
	EMC Emission	Compliance to EN55015, GB17743, GB17625.1, EN61000-3-2 Class C (≥75% load), EN61000-3-3					
	EMC Emission EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A					
OTHERS	MTBF	643.6Khrs min. MIL-HDBK-217 (25°C)					
	Packaging	0.12Kg/60pcs/9.2Kg/0.62CUFT					
	All parameters NOT special Ripple & Noise are measure Jolerance: includes set up t	ly mentioned are n ed at 20MHz of bar	neasured at 230VAC in ndwidth by using a 12	" twisted pair-wire term	C of ambient tempera inated with a 0.1uf &	ature. 47uf parallel capacitator.	

Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitator.
Tolerance: includes set up tolerance, line regulation and load regulation.
Derating may be needed under low input voltages. Please check the static characteristics for more details.
The power supply is considered a component which will be installed into final equipment. All the EMC tests are being executed by mounting the unit on a 360mm "a60mm metal plate with Tmm thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these tests, please refer to "EMI testing of component power supplies."
Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
To fulfill requirements of the latest EIP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently being connected to the mains.

Sunpower Technology LLP Orion House, Calleva Park, Aldermaston, Berkshire RG7 85N Tel: +44 (0)118 981 1001 • E-mail: sales@sunpower-uk.com

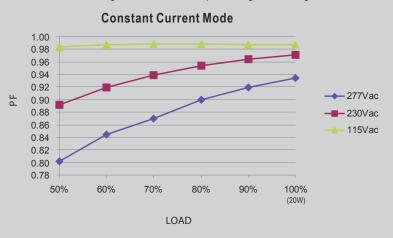




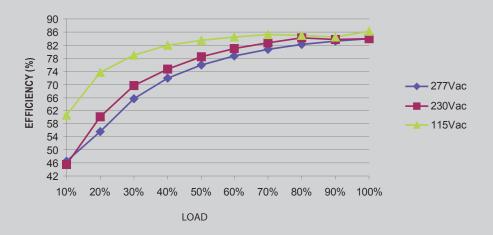


Mechanical Specification

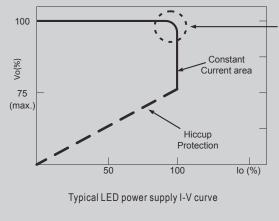
Power factor will be higher than 0.9 when output loading is 75% or higher.



PLP-20 series possess superior working efficiency that up to 83.5% can be reached in field applications.



This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



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.