



For the complete line of specialtyLED® products, visit us online at barronltg.com or call 800.533.3948.

FEATURES

- Universal AC input / Full range (Up to 295VAC)
- Protections: short circuit/overload/over voltage/over temperature
- Built-in constant current limiting circuit with adjustable
- IP64 design for indoor or outdoor installations
- Built-in active PFC function
- Pass LPS
- · Class II power unit
- Cooling by free air convection
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications Note: 1
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 2 year warranty

Model: Date: Accessories: Job Name: Type:

XFMR-277-XX-60



SPECIFICATION

	Model	XFMR-277-12-60	XFMR-277-24-60	
	DC VOLTAGE	12V	24V	
	LED OPERATION VOLTAGE Note: 5	8.4 ~ 12V	16.8 ~ 24V	
	RATED CURRENT	5A	2.5A	
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	60W	60W	
5	RIPPLE & NOISE (max.) Note: 1	2Vp-p	2.7Vp-p	
OUTPUT	VOLTAGE ADJ. RANGE Note: 4	11.5 ~ 13V	24 ~ 26V	
ō		Can be adjusted by inter	Can be adjusted by internal potentiometer SVR1	
	CURRENT ADJ. RANGE Note: 4	3% ~ -25% Can be adjusted by	3% ~ -25% Can be adjusted by internal potentiometer SVR2	
	VOLTAGE TOLERANCE Note: 2	±10	±10%	
	LINE REGULATION	±3.0	±3.0%	
	LOAD REGULATION	±5.0	±5.0%	
	SETUP TIME	500ms/230VAC 3000m	500ms/230VAC 3000ms/115VAC at full load	
	VOLTAGE RANGE Note: 3	90 ~ 295VAC	90 ~ 295VAC 127 ~ 417VDC	
	FREQUENCY RANGE	47 ~ 6	47 ~ 63Hz	
5	POWER FACTOR		PF>0.92/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)	
INPUT	EFFICIENCY(Typ.)	85%	87%	
	AC CURRENT	0.8A/115VAC 0.4A/230	0.8A/115VAC 0.4A/230VAC 0.3A/277VAC	
	INRUSH CURRENT(max.)	COLD START 35A(twidth=25µ s med	COLD START 35A(twidth=25µ s measured at 50% lpeak) at 230VAC	
	LEAKAGE CURRENT	<0.75mA/	<0.75mA/240VAC	
	OVER CURRENT	95 ~ 110% rated output power		
Z		Constant current limiting, recovers automatically after fault condition is remove		
CIC	SHORT CIRCUIT	Hiccup mode, recovers automatica	Hiccup mode, recovers automatically after fault condition is removed	
PROTECTION	OVER VOLTAGE	13.8 ~ 16V	28 ~ 32V	
P.R.		Shut off o/p voltage, re	Shut off o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers autom	Shut down o/p voltage, recovers automatically after temperature goes down	

SPECIFICATION (cont.)

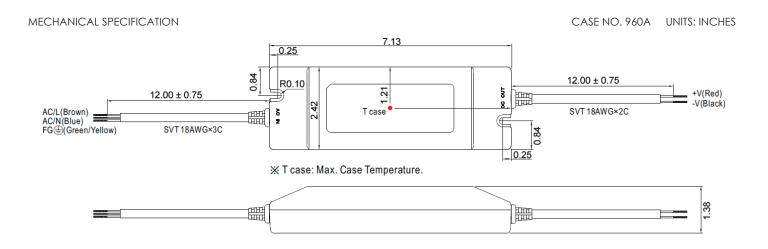
	Model	XFMR-277-12-60	XFMR-277-24-60
ENVIRONMENT	WORKING TEMP.	-22 ~ +122°F (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +176°F , 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%°F (0 ~ 122°F)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL879, UL1310, UL8750, CSA C22.2 No. 207-M89, TUV EN61347-1, EN61347-2- 13 independent, CAN/CSA C22.2 No. 223-M91, CSA C22.2 No. 250.0-08, IP64, J61347-1, J61347-2-13 approved, design refer to UL60950-1	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 77°F/ 70% RH	
	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, criteria A	
OTHERS	MTBF	497.8Khrs min. MIL-HDBK-217F(77°F)	
	DIMENSIONS	7.12in * 2.4in * 1.3in (L*W*H)	
	PACKING	1.1lbs; 24pcs/28.6lbs/0.75CUFT	

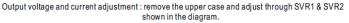
NOTES

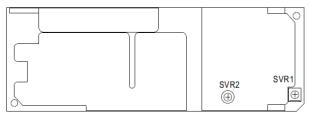
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 of & 47 of parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation.
- Derating: may be needed under low input voltage, please check the static characteristic for more details.
- Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB. Please refer to the "DRIVING METHODS OF LED MODULE"

ATTENTION

- All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 77°F ambient temperature.
- 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.
- Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 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.

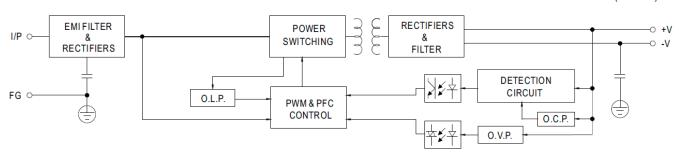


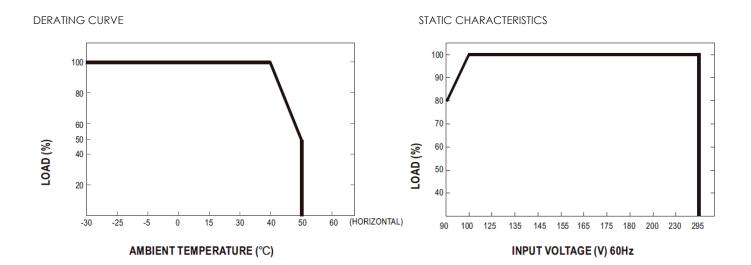




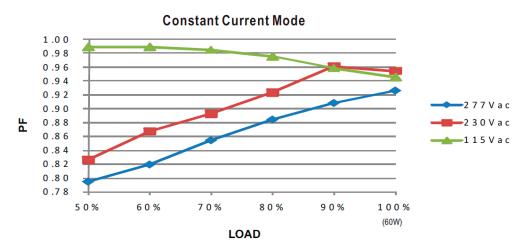
SVR1	Output voltage adjustment
SVR2	Output current adjustment

fosc: 95KHz(115VAC) 135KHz(230VAC)

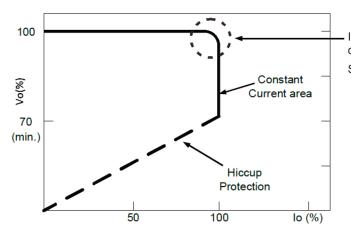




POWER FACTOR CHARACTERISTIC



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

Should there be any compatibity issues, please contact factory.

