



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
- IP65 / IP67 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-150

150W - 277V SINGLE OUTPUT LED POWER SUPPLY



XFMR-277-XX-150	BLANK: IP67 rated. Cable for I/O connection.
	A: IP65 rated. Output voltage and constant current level can be adjusted through internal potential meter
	B: IP67 rated. Constant current level adjustable through output cable.

C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potential meter.

SPECIFICATION

	Model	XFMR-277-12-150	XFMR-277-24-150	
	DC VOLTAGE	12V	24V	
	CONSTANT CURRENT REGION Note: 5	9 ~ 12V	18 ~ 24V	
	RATED CURRENT	11A	6.3A	
	RATED POWER	132W	151.2W	
	RIPPLE & NOISE (max.) Note: 1	150mVp-p	150mVp-p	
VOLTAGE ADJ. RANGE Note: 4 CURRENT ADJ. RANGE Note: 4	VOLTAGE ADJ. RANGE Note: 4	9 ~ 13V	22 ~ 27V	
	CURRENT ADJ. RANGE Note: 4	5.5 ~ 11A	3.15 ~ 6.3A	
0		Can be adjusted by inte	Can be adjusted by internal potentiometer SVR2	
	VOLTAGE TOLERANCE Note: 2	±2.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±0.5%	
	SETUP TIME	3000ms, 80ms at full I	3000ms, 80ms at full load 230VAC/115VAC	
	HOLD UP TIME (typ.)	50ms / 230VAC 16m	s / 115VAC at full load	
	VOLTAGE RANGE Note: 3	90 ~ 295VAC	127 ~ 417VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
5	POWER FACTOR		PF≥0.95/230VAC, PF≥0.98/115VAC at full load & rated output voltage, PF≥0.9 at 75 ~ 100% load (Please refer to "Power Factor Characteristic" curve)	
INPUT	EFFICIENCY(Typ.)	88%	90%	
	AC CURRENT	2A/115VAC	2A/115VAC 1A/230VAC	
	INRUSH CURRENT(max.)	COLD START 65A(twidth=25µ s m	COLD START 65A(twidth=25µ s measured at 50% lpeak) at 230VAC	
	LEAKAGE CURRENT	<1mA/	<1mA/240VAC	

SPECIFICATION (cont.)

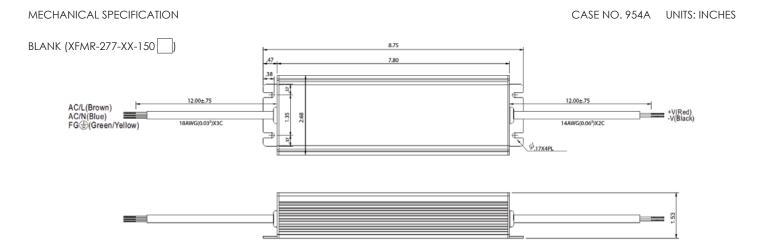
	Model	XFMR-277-12-150	XFMR-277-24-150	
	OVER CURRENT	95 ~ 108% rate	ed output power	
		Constant current limiting, recovers auto	omatically after fault condition is removed	
<u>N</u>	SHORT CIRCUIT	Hiccup mode, recovers automatic	Hiccup mode, recovers automatically after fault condition is removed	
PROTECTION	OVER VOLTAGE	13.5 ~ 16V	28 ~ 34V	
		Shut off o/p voltage,	re-power on to recover	
	OVER TEMPERATURE	100°C ±	10°C (RTH2)	
		Shut down o/p voltage, recovers auto	Shut down o/p voltage, recovers automatically after temperature goes down	
► WORKING TEMP.	-22 ~ 158°F (Refer	to "Derating Curve")		
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH r	non-condensing	
NO	STORAGE TEMP., HUMIDITY	-40 ~ 176°F	-40 ~ 176°F , 10 ~ 95% RH	
Ϋ́	TEMP. COEFFICIENT	±0.03%°F	±0.03%°F (32 ~ 122°F)	
Ë	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, peri	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
	SAFETY STANDARDS		UL1012; EN61347-1, EN61347-2-13 independent (except for GLC-150 C type); UL60950-1, TUV EN60950-1; J61347-1, J61347-2-13(12 ~ 15V only), IP65 or IP67	
MC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
SAFETY & EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 77°F/ 70% RH	
ËTY	EMI CONDUCTION AND RADIATION	Compliance to EN55015	Compliance to EN55015, EN55022 (CISPR22) Class B	
	Compliance to EN61000-3-2 (Class C (≥75% load); EN61000-3-3		
	EMI IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A	
SS	MTBF	303.7Khrs min.	MIL-HDBK-217F(77°F)	
OTHERS	DIMENSIONS	DIMENSIONS 8.74in * 2.67in * 1.52in (L*W*H) 9in * 2		
О	PACKING	2.2lbs; 12pcs/28.6lbs/0.49CUFT	2.2lbs; 12pcs/28.6lbs/0.96CUFT	

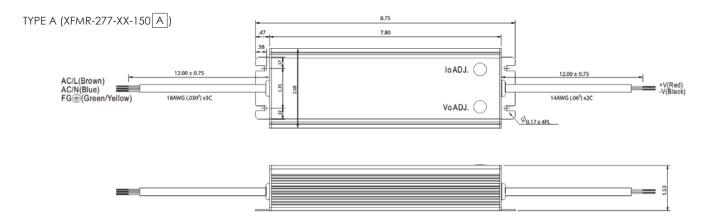
NOTES

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation.
- 3. Derating: may be needed under low input voltage, please check the static characteristic for more details.
 4. 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.
 5. Please refer to the "DRIVING METHODS OF LED MODULE"

ATTENTION

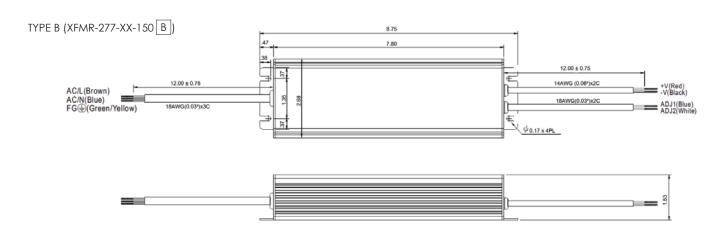
- All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 77°F ambient temperature.
- The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final 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.





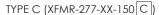
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potential meter.

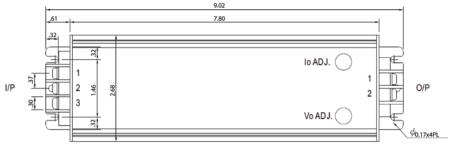
(Can access by removing the rubber stopper on the case.)



- 💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.
- $\ensuremath{\ensuremath{\%}}\xspace Reference \ resistance \ value \ for output \ current \ adjustment \ (Typical)$

Resistance	Percentage of rated current
Open	Slightly > 100%
4.7ΚΩ	100%
620 Ω	75%
82Ω	50%
Short	Slightly < 50%





AC Input Terminal Pin No. Assignment

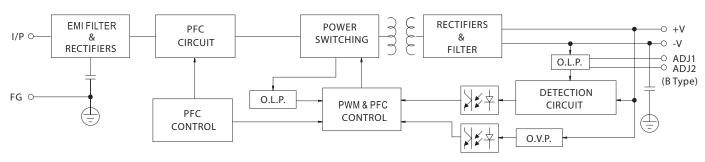
Pin No.	Assignment
1	FG ±
2	AC/N
3	AC/L

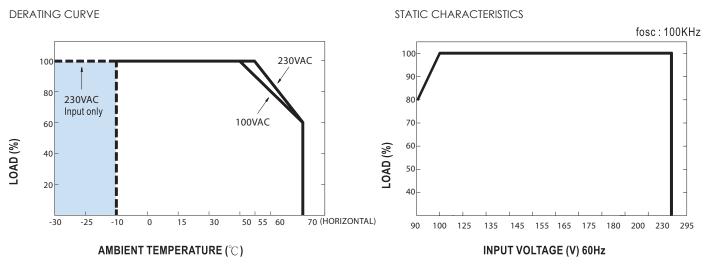
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	+V
2	-V

Output voltage and constant current level can be adjusted through internal potential meter.
 (Can access by removing the rubber stopper on the case.)

Fosc: 100KHz

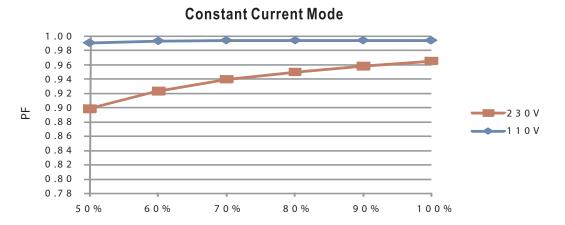


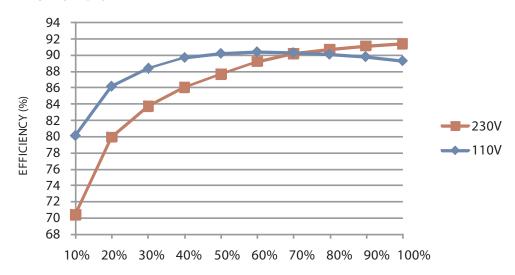


%-30 $^{\circ}$ C start up possible for 230VAC input

POWER FACTOR CHARACTERISTIC

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



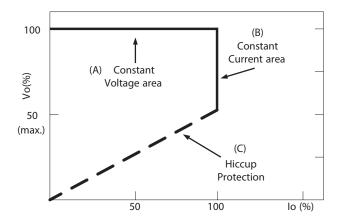


DRIVING METHODS OF LED MODULE

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 compatibity issues, please contact factory.

