

150W Single Output Switching Power Supply





■ Features :

- Universal AC input / Full range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Cooling by free air convection
- · OCP point adjustable through output cable or internal potentiometer
- IP65 / IP67 design for indoor or outdoor installations
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 3 years warranty



CLG-150-12 A Blank: IP67 rated. Cable for I/O connection.

- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- 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 potentiometer.

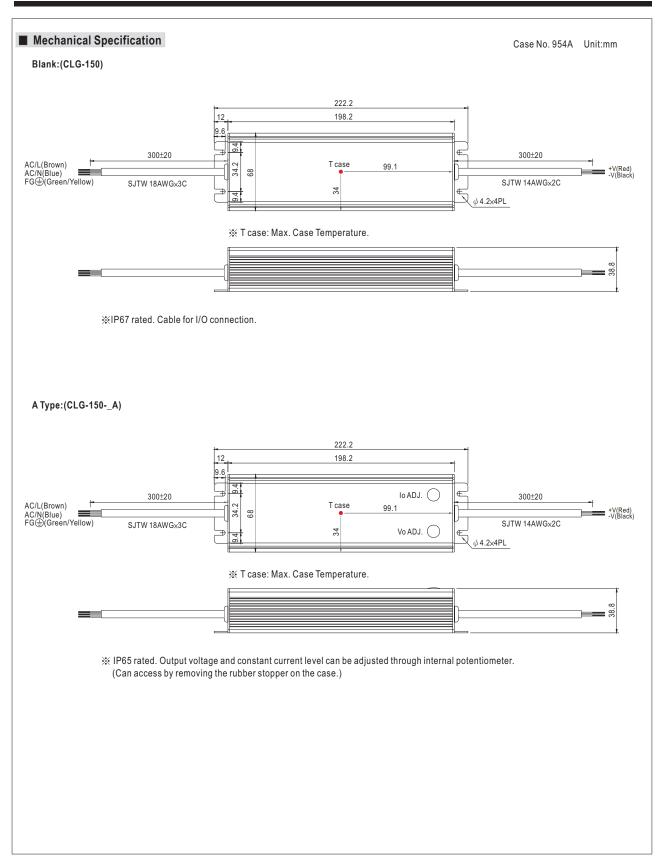
SPECIFICATION

MODEL		CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V		
	CONSTANT CURRENT REGION Note.4	9 ~12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	36 ~ 48V		
	RATED CURRENT	11A	9.5A	7.5A	6.3A	5A	4.2A	3.2A		
	RATED POWER	132W	142.5W	150W	151.2W	150W	151.2W	153.6W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE Note.6	9 ~ 13V	13 ~ 17V	17 ~ 22V	22 ~ 27V	26 ~ 32V	31 ~ 41V	40 ~ 56V		
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only								
		5.5 ~ 11A	4.75 ~ 9.5A	3.75 ~ 7.5A	3.15 ~ 6.3A	2.5 ~ 5A	2.1 ~ 4.2A	1.6 ~ 3.2A		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP. RISE TIME	3000ms, 80ms/11		80ms/230VAC at f						
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load								
	VOLTAGE RANGE Note.5	90 ~ 295VAC 127 ~ 417VDC								
	FREQUENCY RANGE	90~295VAC 121~417VDC 47~63Hz								
	POWER FACTOR (Typ.)									
	TOTAL HARMONIC DISTORTION	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve) THD<20% when output loading≧75% at 115VAC/230VAC input and output loading≧75% at 277VAC input								
1	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%		
INFUI	AC CURRENT (Typ.)	2A / 115VAC	1A / 230VAC	0.68A / 277VAC	90 /0	91/0	91/0	91/0		
	, ,,				k) at 2201/AC					
-	INRUSH CURRENT(max.)	COLD START 65A(twidth=595 \(\mu \) s measured at 50% peak) at 230VAC								
	MAX. No. of PSUs on 16A	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC								
-	CIRCUIT BREAKER									
	LEAKAGE CURRENT	<1mA/240VAC								
	OVER CURRENT (Typ.) Note.4	95 ~ 108%								
		Protection type : Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE	13.5 ~ 17V	18 ~ 23V	23 ~ 28V	28 ~ 34V	33 ~ 39V	42 ~ 50V	59 ~ 70V		
		Protection type : S	Shut down and latc	h off o/p voltage, re	e-power on to recov	er				
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/C (0~50°C)								
	VIBRATION	,	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
		III 8750 CSA C22 2 No. 250 0-08 III 1012 CAN/CSA-C22 2 No. 107 1-01 III 879 CSA C22 2 No. 207-M89 FN61347-1 FN61347-2-13 independent								
	SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	(except for CLG-150 C type), UL60950-1, TUV EN60950-1,IP65 or IP67, J61347-1(except for CLG-150 C type), J61347-2-13 approve								
SAFETY &		` '	** /			7.1. 1(0x00pt101 01	20 100 0 typo/, 00 t	51. 2 15 appion		
EMC	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
-	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧75% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A								
	MTBF				1455024, light indus	iry level (Surge 4K)	v), Unteria A			
OTHERS			MIL-HDBK-217F	. ,	220*60*20 0 /1 *	W*U\(CLC 450.0)	\			
	DIMENSION		n (L*W*H)(CLG-150 g/0.58CUFT(CLG-	,	229*68*38.8mm (L*	7/0.96CUFT(CLG-	,			
	PACKING		• •	,	0. 1	,	100-0)			
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltages. Please check the static characteristics for more details. A type and C type only. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanent in the final equipment is the switch without permanent in the final equipment is the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanent is the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanent is the latest ErP regulation for lighting fixtures. 									
	9. To fulfill requirements of tr connected to the mains.	ie iatest Err regt	ilation for lighting	lixtures, triis LED	power supply cal	n only be used b		nout permaner		





150W Single Output Switching Power Supply

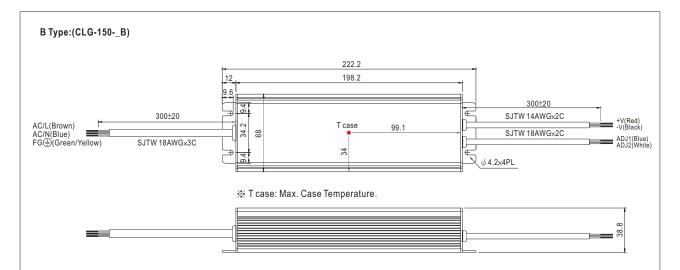


Tel: 626-969-6140



CLG-150 series

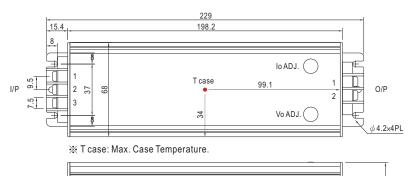
150W Single Output Switching Power Supply



- 💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.
- * Reference resistance value for output current adjustment (Typical)

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

C Type:(CLG-150-_C)



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

Tel: 626-969-6140 Fax: 626-609-4288

AC Input Terminal Pin No. Assignment

0	
Pin No.	Assignment
1	FG ±
2	AC/N
3	AC/L

DC Output Terminal Pin No. Assignment

Pin No.	Assignment				
1	+V				
2	-V				

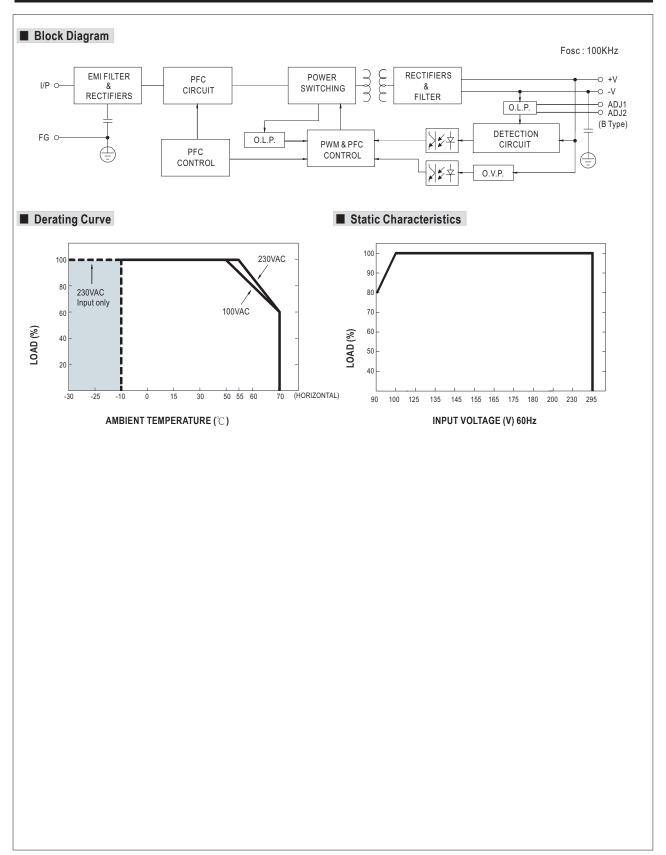
File Name:CLG-150-SPEC 2015-05-28

Email: sales@organiclighting.com



CLG-150 series

150W Single Output Switching Power Supply



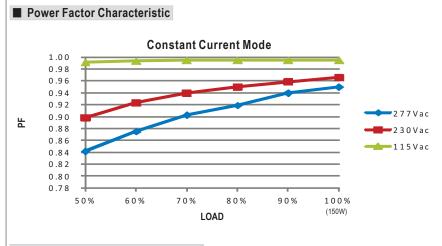
Tel: 626-969-6140 Fax: 626-609-4288

Email: sales@organiclighting.com



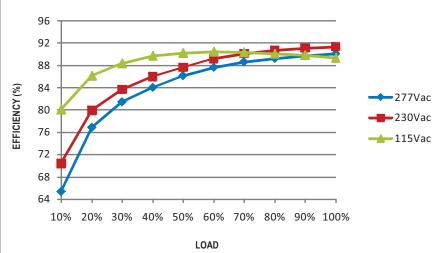


150W Single Output Switching Power Supply



■ EFFICIENCY vs LOAD (48V Model)

CLG-150 series possess superior working efficiency that up to 91% can be reached in field applications.

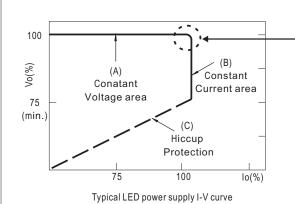


■ DRIVING METHODS OF LED MODULE

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)].



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.

Tel: 626-969-6140 Fax: 626-609-4288

File Name:CLG-150-SPEC 2015-05-28

Email: sales@organiclighting.com