

CLG-150 series



Features :

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

	v IP65 IP67	(for UL8750 48V only)	د جر الله	Image: Strain and Str	CE
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CLG-150-12 A Blank : IP67 rated. Cable for I/O connection.

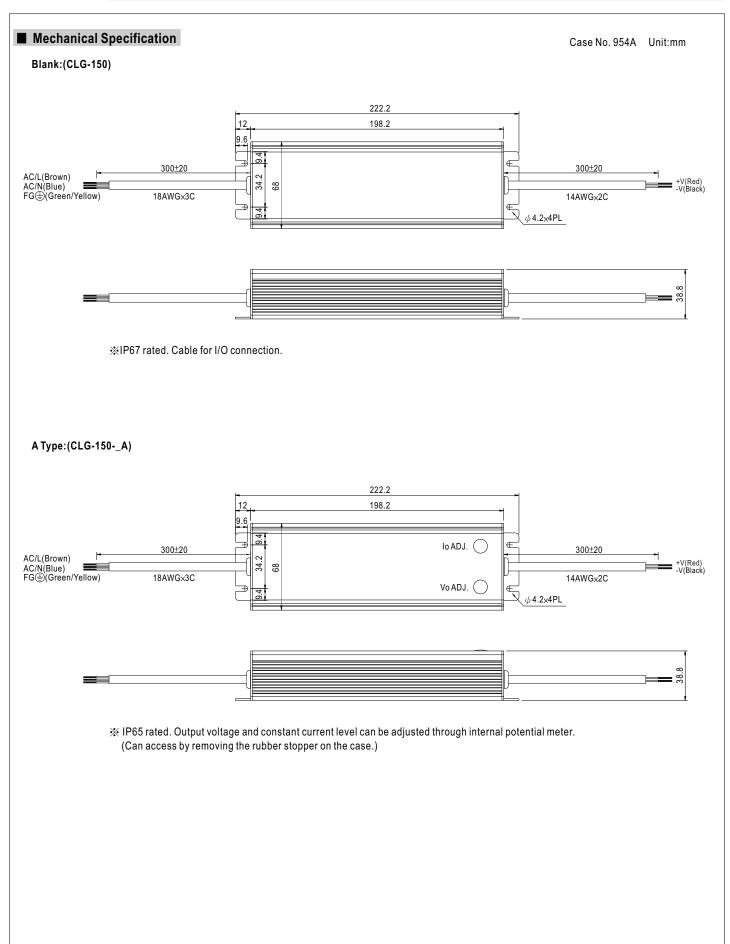
- A : IP65 rated. Output voltage and constant current level can be adjusted through internal potential meter.
- B : IP67 rated. Constant current level adjustable through output cable.
- C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potential meter.

SPECIFICATION

MODEL		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		13~17V	17~22V	22 ~ 27V	26~32V	31~41V	40~56V	
UTPUT			y internal potential		1			1	
	CURRENT ADJ. RANGE	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 at full load 230VAC /115VAC							
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load							
	FREQUENCY RANGE	90 ~ 295VAC 127 ~ 417VDC 47 ~ 63Hz							
	POWER FACTOR	PF≧0.95/230VA		15\/AC at full load	and rated output vol	tage DE > 0.0) at 75 ~ 100% loa	4	
NPUT		PF ≧ 0.95/230VA0 88%	2 PF <u>≥</u> 0.98/1 88%	90%		tage PF ≧0.8 91%	91%	91%	
	EFFICIENCY (Typ.) AC CURRENT	2A / 115VAC	1A / 230VAC	90%	90%	31%	91%	91%	
	INRUSH CURRENT(max.)	COLD START 65A/230VAC							
	LEAKAGE CURRENT	<1mA/240VAC							
	OVER CURRENT (Typ.) Note.4	95 ~ 108%							
	(),)	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT		overs automatically			1	T	1	
ROTECTION	OVER VOLTAGE	13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V	
		Protection type : Shut down and latch off o/p voltage, re-power on to recover							
	OVER TEMPERATURE	100°C ±10°C (RT	,						
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70 $^\circ\mathrm{C}$ (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~5	0°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
		UL8750, UL1012 ; EN61347-1, EN61347-2-13 independent (except for CLG-150 C type) ; UL60950-1, TUV EN609						0950-1 ;	
	SAFETY STANDARDS Note.7	J61347-1(option, except for CLG-150 C type), J61347-2-13, IP65 or IP67 approved							
	WITHSTAND VOLTAGE		C I/P-FG:1.88K						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
EMC	EMI CONDUCTION & RADIATION								
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≧75% load) ; EN61000-3-3							
	EMS IMMUNITY	Compliance to EN61000-3-2 Class C (≥ 75% load) ; EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A							
	MTBF								
OTHERS	DIMENSION	303.7Khrs min. MIL-HDBK-217F (25℃) 222.2*68*38.8mm (L*W*H)(CLG-150-Blank/A/B) 229*68*38.8mm (L*W*H)(CLG-150-C)							
	PACKING		g/0.49CUFT(CLG-			/0.96CUFT(CLG-1			
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up Constant current operation n reconfirm special electrical r Derating may be needed ur Type A and type C only. Safety and EMC design reft The power supply is consid complete installation, the fin 	y mentioned are r d at 20MHz of ba tolerance, line reg egion is within 75' equirements for so ider low input volta er to EN60598-1, s ered as a compon	neasured at 230V/ ndwidth by using a ulation and load re % ~100% rated ou ome specific syster ages. Please check subject 8750(UL), (ent that will be ope	AC input, rated loa 12" twisted pair-v gulation. tput voltage. This n design. < the static charact CNS15233, GB700 erated in combinat	d and 25°C of amb vire terminated with is the suitable oper eristics for more de 00.1, FCC part18. on with final equip	a 0.1uf & 47uf pa ation region for LE atails.	rallel capacitor. ED related applicati performance will b		

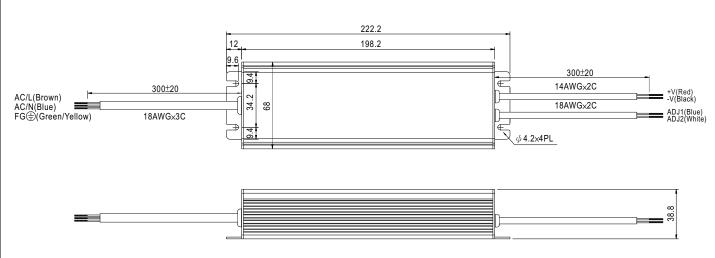


CLG-150 series





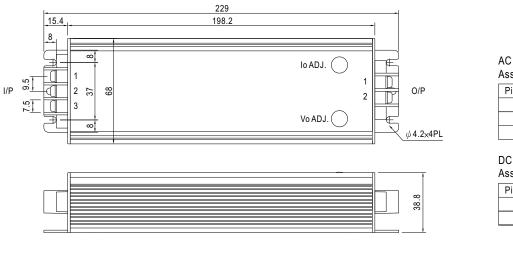
B Type:(CLG-150-_B)



% 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%
82 Ω	50%
Short	Slightly < 50%

C Type:(CLG-150-_C)



AC Input Terminal Pin No. Assignment

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

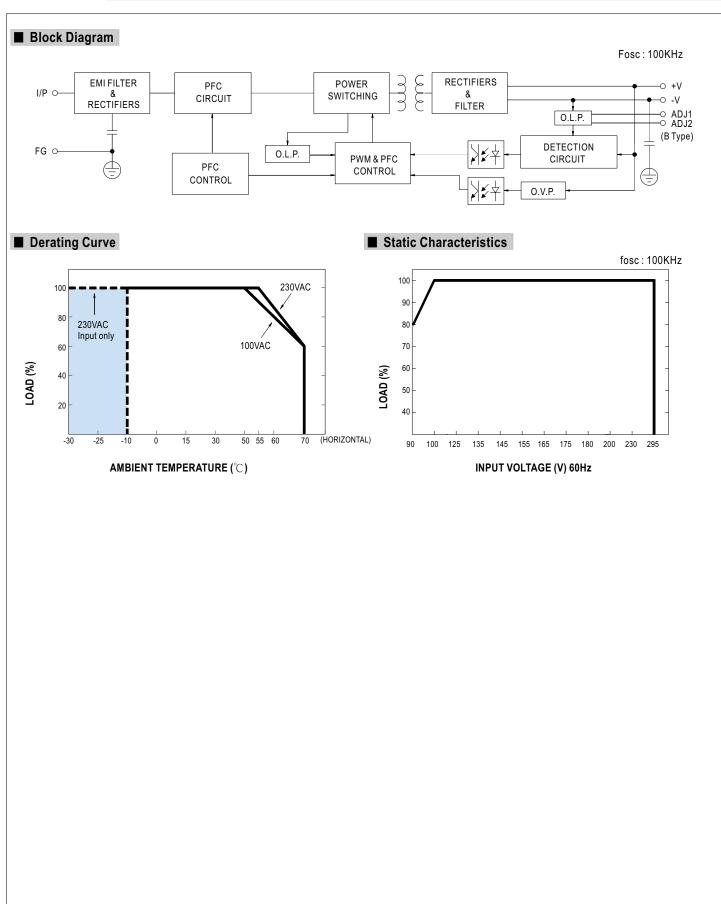
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	+V
2	-V

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



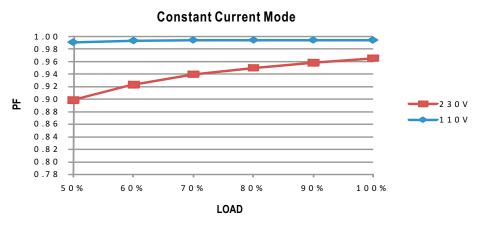
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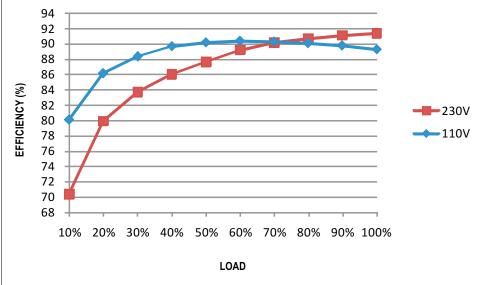
Power Factor Characteristic

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



■ 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)].

