


■ Features :

- Universal AC input / Full range (up to 280VAC)
- High efficiency 92%
- 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
- Damp / wet location outdoor application
- Compliance to worldwide safety regulations for lighting
- 3 years warranty



CLG-150-12	A	Blank : IP67 rated. Cable for I/O connection. (Optional)
	B	A : IP65 rated. Output voltage and constant current level can be adjusted through internal potential meter.
	C	B : IP67 rated. Constant current level adjustable through output cable. (Optional)
		C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potential meter. (Optional)

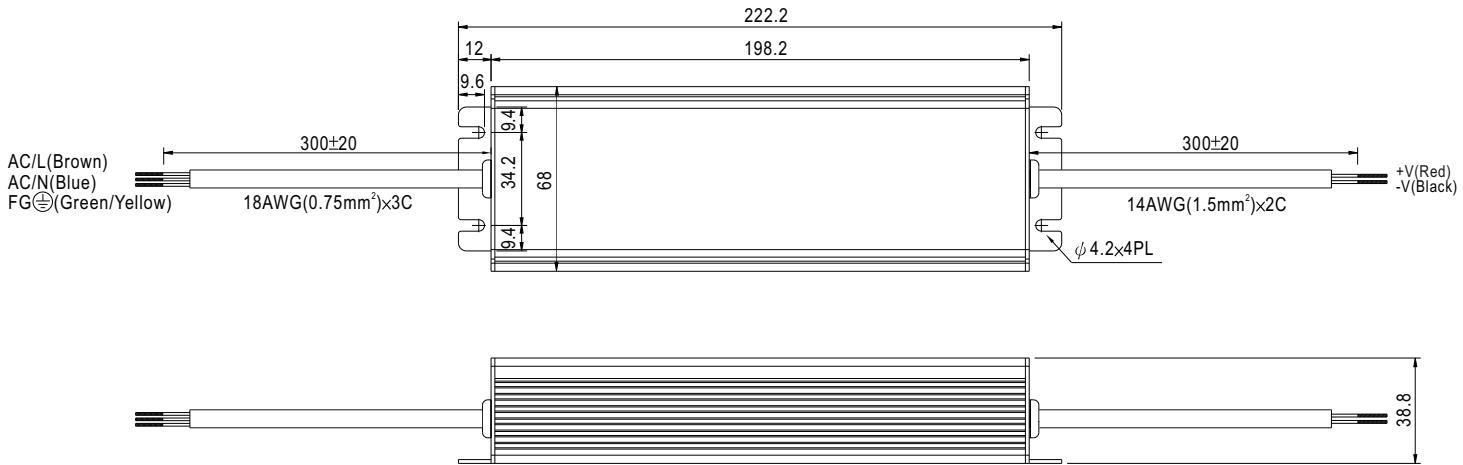
SPECIFICATION

MODEL	CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V
	CONSTANT CURRENT REGION Note.4	9~12V	11.25~15V	15~20V	18~24V	22.5~30V	27~36V
	RATED CURRENT	11A	9.5A	7.5A	6.3A	5A	4.2A
	RATED POWER	132W	142.5W	150W	151.2W	150W	151.2W
	ripple & noise (max.) Note.2	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
	CURRENT ADJ. RANGE	Can be adjusted by internal potential meter or through output cable					
		5.5~11A	4.75~9.5A	3.75~7.5A	3.15~6.3A	2.5~5A	2.1~4.2A
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
INPUT	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±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					
	VOLTAGE RANGE Note.5	90~295VAC 127~417VDC					
	FREQUENCY RANGE	47~63Hz					
	POWER FACTOR	PF ≥ 0.95/230VAC PF ≥ 0.98/115VAC at full load and rated output voltage PF ≥ 0.9 at 75~100% load					
PROTECTION	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%
	AC CURRENT	2A / 115VAC	1A / 230VAC				
	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					
ENVIRONMENT	SHORT CIRCUIT Note.8	Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.5~16V	18~20V	23~27V	28~34V	33~36V	42~48V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover					
	OVER TEMPERATURE	100°C ±10°C (RTH2)					
		Protection type : Shut down o/p voltage, re-power on to recover					
SAFETY & EMC	WORKING TEMP. Note.7	-30~+55°C @ full load ; +70°C @ 60% load					
	WORKING HUMIDITY	20~95% RH non-condensing					
	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					
OTHERS	SAFETY STANDARDS Note.9	UL1012 ; EN61347-1, EN61347-2-13 independent (except for CLG-150 C type) ; UL60950-1, TUV EN60950-1 (TBD)					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3					
NOTE	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A					
	MTBF	303.7Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	222.2*68*38.8mm (L*W*H)(CLG-150-Blank/A/B) 229*68*38.8mm (L*W*H)(CLG-150-C)					
	PACKING	1.0Kg, 12pcs/13Kg/0.49CUFT(CLG-150-Blank/A/B) 1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C)					
	1.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.					
	2.	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.					
	3.	Tolerance : includes set up tolerance, line regulation and load regulation.					
	4.	Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.					
	5.	Derating may be needed under low input voltages. Please check the derating curve for more details.					
	6.	Type A and type C only.					
	7.	Please refer to derating curve.					
	8.	Please refer to OLP characteristics.					
	9.	Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.					
	10.	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.					

■ Mechanical Specification

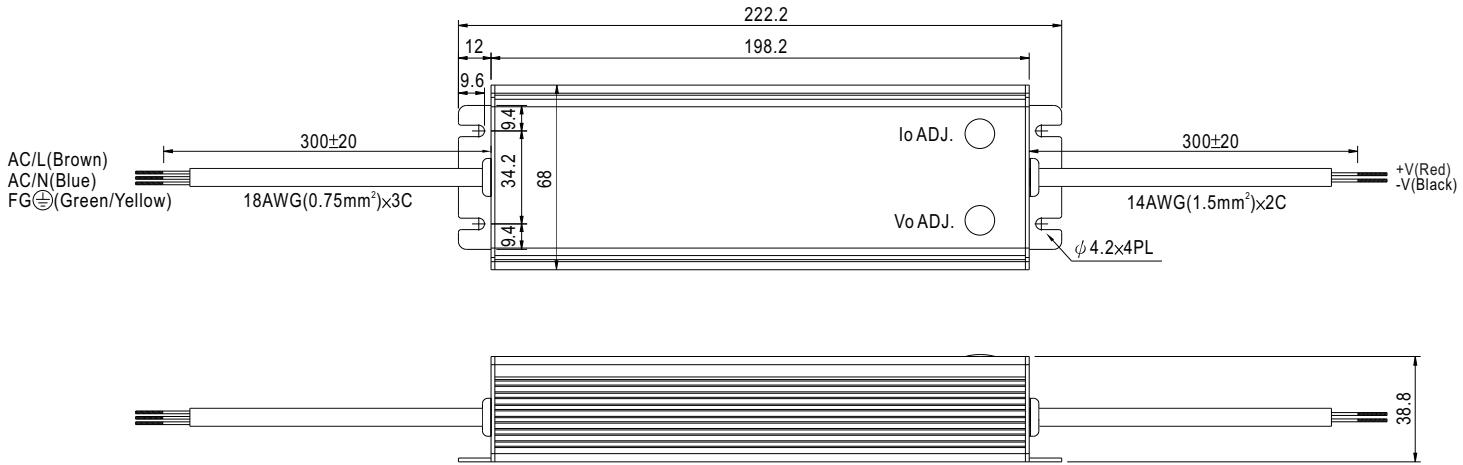
Case No. 954A Unit:mm

Blank:(CLG-150)

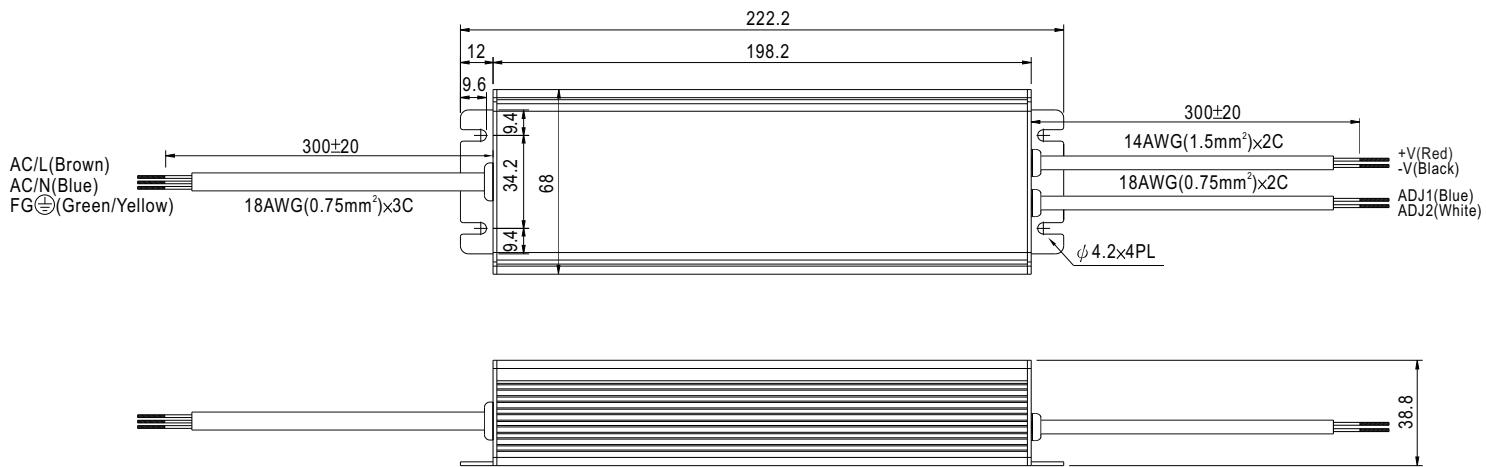


※IP67 rated. Cable for I/O connection.

A Type:(CLG-150- A)


 ※ 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.)

B Type:(CLG-150-_B)

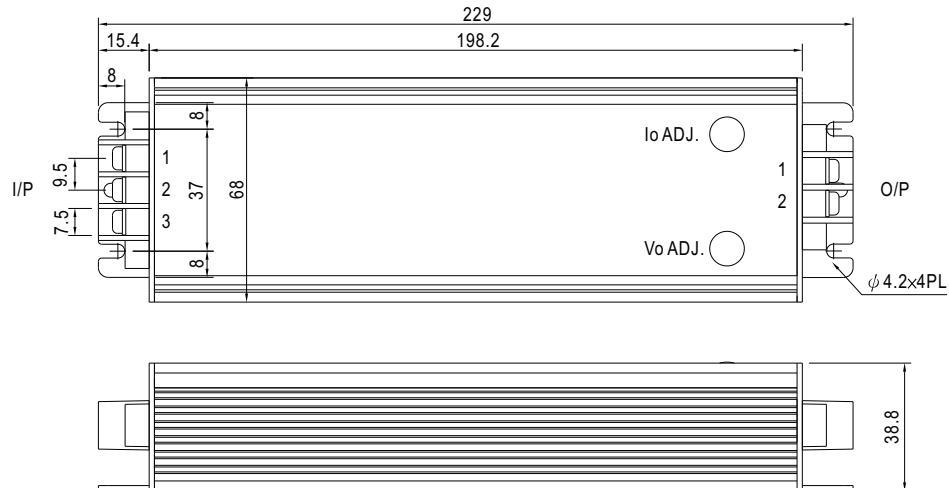


※ IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.

※ Reference resistance value for output current adjustment (Typical)

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

C Type:(CLG-150-_C)



AC Input Terminal Pin No.
Assignment

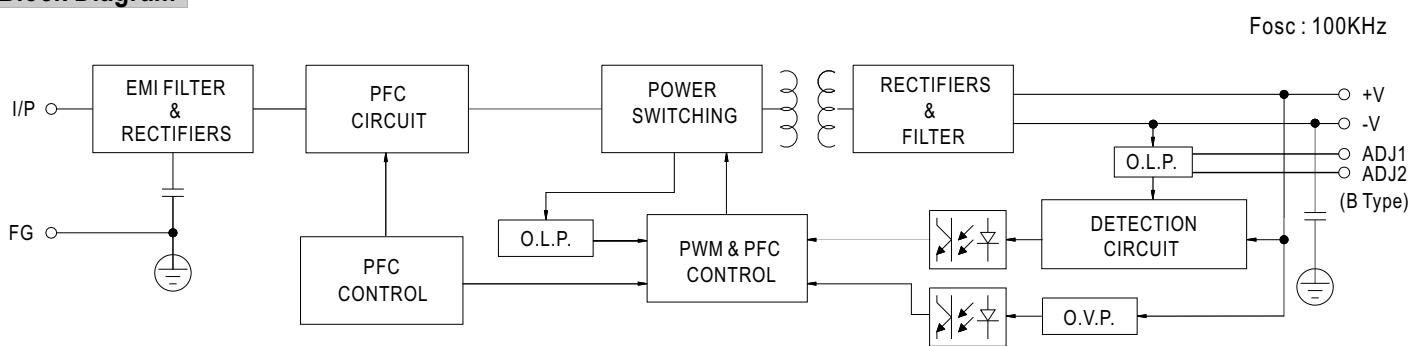
Pin No.	Assignment
1	FG \pm
2	AC/N
3	AC/L

DC Output Terminal Pin No.
Assignment

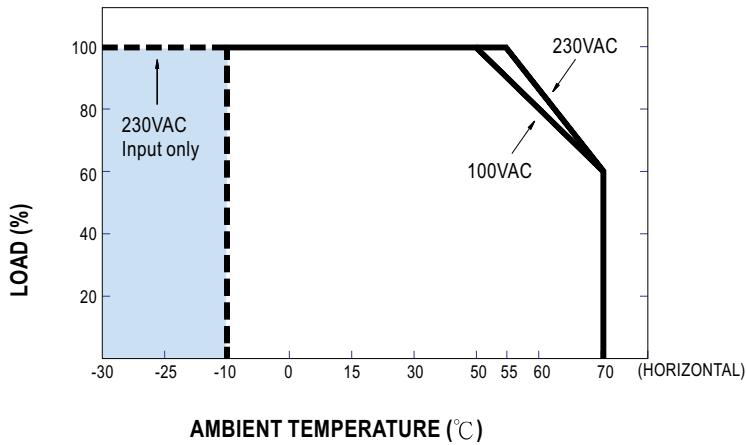
Pin No.	Assignment
1	+V
2	-V

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

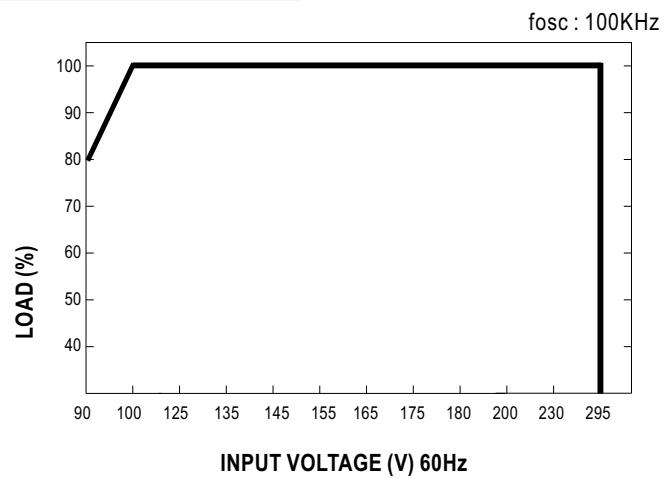
■ Block Diagram



■ Derating Curve



■ Static Characteristics



※-30°C start up possible for 230VAC input