



#### Features:

- Universal AC input / Full range (up to 280VAC)
- 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)

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. (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		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V		
OUTPUT	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		
	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	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								
INPUT	VOLTAGE RANGE Note.5	90 ~ 280VAC 127 ~ 396VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR	$PF \ge 0.95/230VAC$ $PF \ge 0.98/115VAC$ at full load and rated output voltage $PF \ge 0.9$ at 75 ~ 100% load								
	EFFICIENCY (Typ.)	88%	88%	90%	90%	90%	89%	90%		
	AC CURRENT	2A / 115VAC	1A / 230VAC							
	INRUSH CURRENT(max.)	COLD START 65/	A/230VAC							
	LEAKAGE CURRENT	<1mA/240VAC								
PROTECTION	OVER CURRENT (Typ.) Note.4	95 ~ 108%								
		Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT Note.8									
		13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V		
	OVER VOLTAGE	Protection type : S	Shut down and latc	h off o/p voltage, re	-power on to recov	er				
	OVER TEMPERATURE	100°C ±10°C (RTH2)								
		Protection type: Shut down o/p voltage, re-power on to recover								
	WORKING TEMP. Note.7	-30 ~ +55°C @ full load ; +70°C @ 60% load								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
NVIRONMENT	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								
	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								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A								
	MTBF		MIL-HDBK-217F		. ,	, , , , , , , , , , , , , , , , , , , ,	, J. ,,			
OTHERS	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		g/0.49CUFT(CLG-		,	1/0.96CUFT(CLG-1				
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance : includes set up	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  End at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  tolerance, line regulation and load regulation.  region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please								

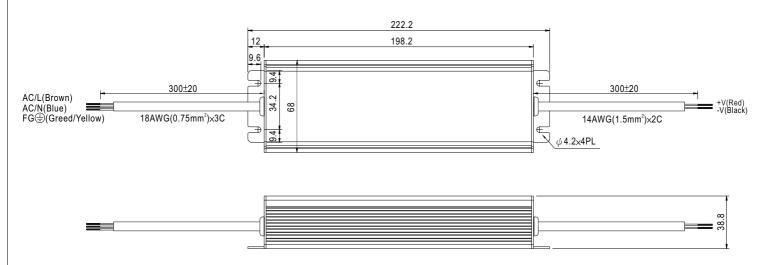
- Constant current operation region is within  $75\% \sim 100\%$  rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design
- 5. Derating may be needed under low input voltages. Please 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.



## ■ Mechanical Specification

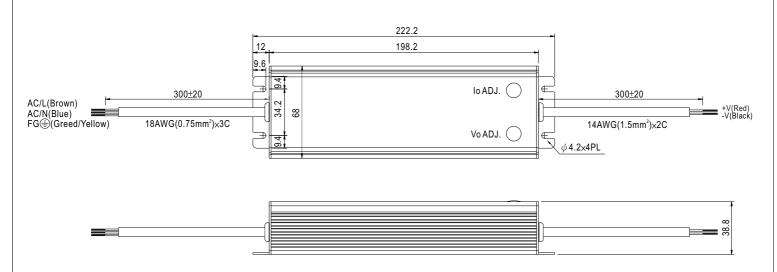
Case No. 954A Unit:mm

## Blank:(CLG-150)



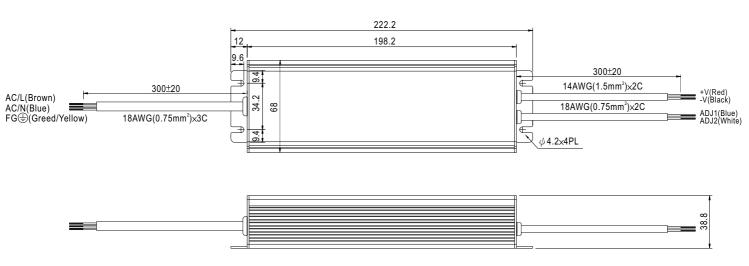
%IP67 rated. Cable for I/O connection.

#### A Type:(CLG-150-\_A)





### B Type:(CLG-150-\_B)

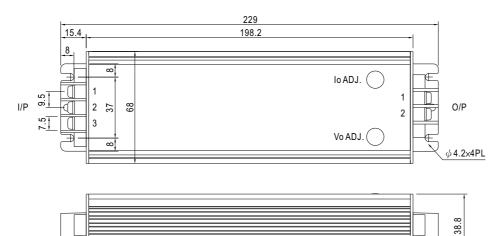


💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.

\* Reference resistance value for output current adjustment (Typical)

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

## C Type:(CLG-150-\_C)



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

# 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



