



#### 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







SELV IP65 IP67 🕝 c 👊 us 🚉 🚾







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		
ОИТРИТ	CONSTANT CURRENT REGION Note.4		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	151.2VV 150mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE Note.6		13 ~ 17V	17 ~ 22V	22 ~ 27V	26 ~ 32V	31 ~ 41V	40 ~ 56V		
	VOLTAGE ADJ. RANGE Note.6									
	CURRENT ADJ. RANGE	Can be adjusted by internal potential meter or through output cable $ 5.5 \sim 11A \qquad 4.75 \sim 9.5A \qquad 3.75 \sim 7.5A \qquad 3.15 \sim 6.3A \qquad 2.5 \sim 5A \qquad 2.1 \sim 4.2A \qquad 1.6 \sim 3.2A $								
	VOLTACE TOLEDANCE Note 2		±2.0%					±1.0%		
	VOLTAGE TOLERANCE Note.3			±2.0%	±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		90 ~ 295VAC 127 ~ 417VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR	PF ≥ 0.95/230VA			and rated output vol		at 75 ~ 100% load			
	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	92%		
	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		Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT Note.8	7								
		13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V		
	OVER VOLTAGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover								
		100°C ±10°C (RTH2)								
	OVER TEMPERATURE	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								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	- (	- ,	d for 72min each	along X Y 7 axes					
	-		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes  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 EN600013, EN60022 (GISPR22) Class B  Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3								
	EMS IMMUNITY	Compliance to EN61000-3-2 class 6 (≥ 73 % 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	303.7Khrs min.	MIL-HDBK-217F		1101047, 21100024	, light illudaily leve	i (surge 41tv), one	JII U T		
OTHERS	DIMENSION		n (L*W*H)(CLG-150		229*68*38.8mm (L*	W*H)(CLG-150-C)				
	PACKING		g/0.49CUFT(CLG-			1/0.96CUFT(CLG-1				
		0. 1	• •	· · · · · · · · · · · · · · · · · · ·	0	,				
NOTE	Ripple & noise are measure     Tolerance : includes set up     Constant current operation reconfirm special electrical reconfirm.	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  ed 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 requirements for some specific system design.  nder low input voltages. Please check the derating curve for more details.								

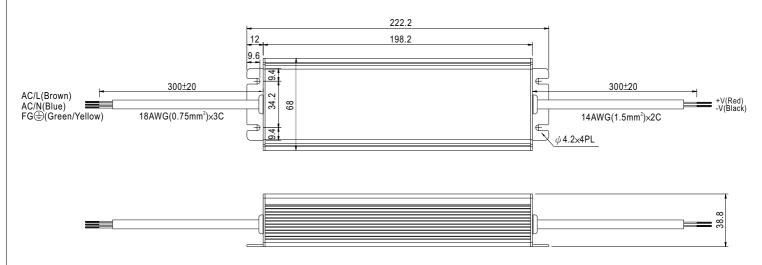
- 6. Type A and type C only.
- 7. Please refer to derating curve.
- 8. Please refer to OLP characteristics.
  9. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
- 10. The power supply is considered as a component that will be operated in combination with final 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

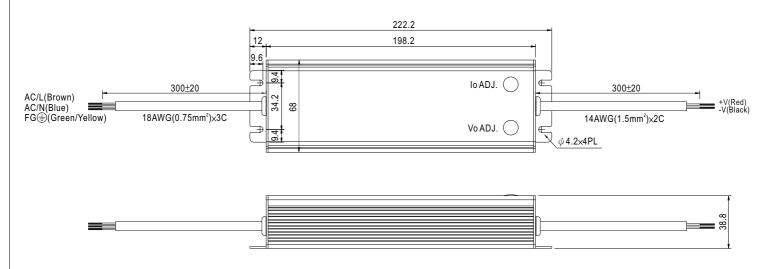
Case No. 954A Unit:mm

## Blank:(CLG-150)



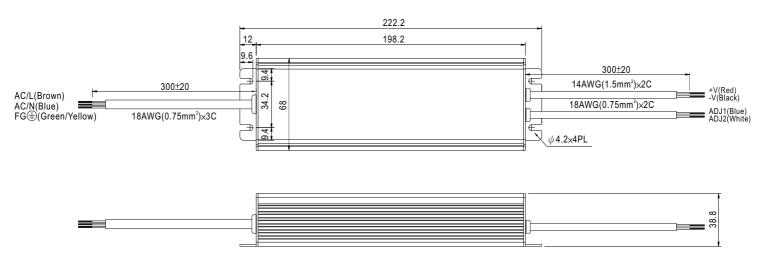
%IP67 rated. Cable for I/O connection.

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





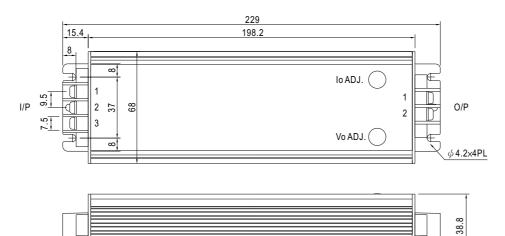
#### B Type:(CLG-150-\_B)



- 💥 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%		
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



