



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	
	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	
ОИТРИТ	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	C/115VAC					
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.5								
	FREQUENCY RANGE	90 ~ 260VAC 127 ~ 390VDC 47 ~ 63Hz							
	POWER FACTOR	$ 41 \sim 0.012 $ $ FF \ge 0.95/230VAC \qquad PF \ge 0.98/115VAC \text{ at full load and rated output voltage} \qquad PF \ge 0.9 \text{ at } 75 \sim 100\% \text{ load}$							
	EFFICIENCY (Typ.)	88%	88%	90%	90%	90%	89%	90%	
	AC CURRENT	2A / 115VAC	1A / 230VAC	3070	3070	3070	0370	3070	
	INRUSH CURRENT(max.)	2A/115VAC							
	LEAKAGE CURRENT								
	LEARAGE CORRENT	<1mA/240VAC							
	OVER CURRENT (Typ.) Note.4	95 ~ 108%							
	ALIANT AIRAUT	Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT Note.8								
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 (RTH2)							
		Protection type: Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	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							
SAFETY & EMC	SAFETY STANDARDS Note.9	UL1012; EN61347-1, EN61347-2-13 independent; 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								
	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	303.7Khrs min. MIL-HDBK-217F (25°C)							
THERS	DIMENSION	222*68*39mm (L*W*H)							
O I II LINO	PACKING	,	(g/0.49CUFT(CLG-	-150-A/B) 1Kd	g; 12pcs/13Kg/0.96	CUFT(CLG-150-C)			
ОТЕ	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The death of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance, line regulation and load regulation. The suitable operation region for LED related applications, but please 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.

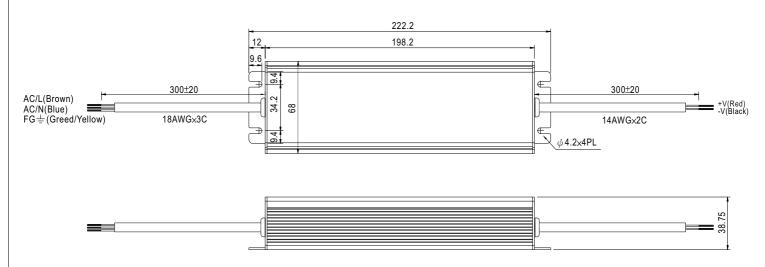
 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. Type A and type C only.
- 7. Please refer to derating curve.
- 8. Please refer to OLP characteristics
- 9. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.



■ Mechanical Specification

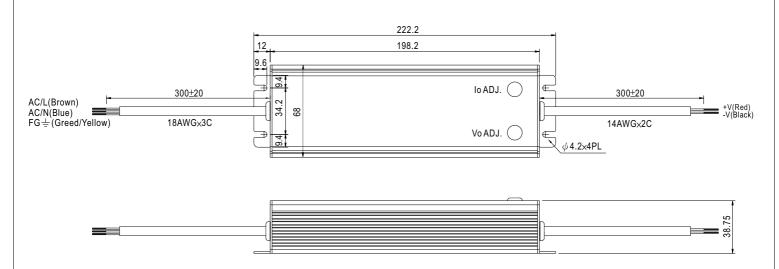
Case No. 954A Unit:mm

Blank:(CLG-150)



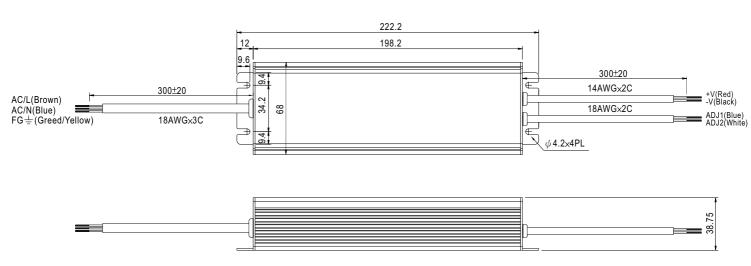
%IP67 rated. Cable for I/O connection.

A Type:(CLG-150-_A)





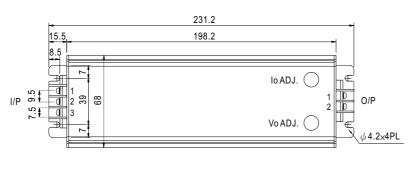
B Type:(CLG-150-_B)



- 💥 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		



