



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		
ОИТРИТ	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		
	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		C/115VAC						
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load								
	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								
INPUT	EFFICIENCY (Typ.)	88%	88%	90%	90%	90%	89%	90%		
	AC CURRENT	2A / 115VAC	1A / 230VAC	1 1 1 1						
ļ	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 Note.8			y after fault condition	· · · · · · · · · · · · · · · · · · ·					
PROTECTION	OVER VOLTAGE	13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V		
PROTECTION		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								
	WORKING TEMP. Note.7	-30 ~ +55°C @ full load ; +70°C @ 60% load								
ENVIRONMENT	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								
		UL1012 ; EN61347-1, EN61347-2-13 independent ; UL60950-1, TUV EN60950-1 (TBD)								
	WITHSTAND VOLTAGE	UP-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC UP-FG:0.5KVAC UP-FG:0								
SAFETY &	ISOLATION RESISTANCE			ms / 500VDC / 25°(
EMC	EMI CONDUCTION & RADIATION									
LINO	HARMONIC CURRENT	Compliance to EN55015, EN55022 (CISPR22) Class B Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3								
	EMS IMMUNITY	·		, , ,	EN61547, EN55024	L light industry leve	Al (surge 4KV) crite	eria Δ		
OTHERS	MTBF		MIL-HDBK-217F			,g	(Julyo rity), olit	J		
	DIMENSION		1 (L*W*H)(CLG-15	(- /	229*68*38.8mm (L*	W*H)(CLG-150-C)				
	PACKING		g/0.49CUFT(CLG-		•	1/0.96CUFT(CLG-1				
		ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.								
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation	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.								

- reconfirm special electrical requirements for some specific system design.

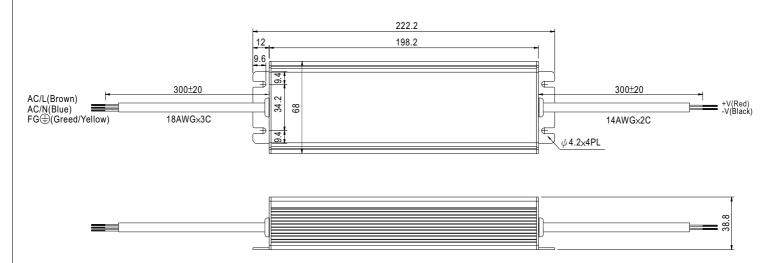
 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. Type A and type C only.
- 7. Please refer to derating curve. 8. Please refer to OLP characteristics
- 9. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.



■ Mechanical Specification

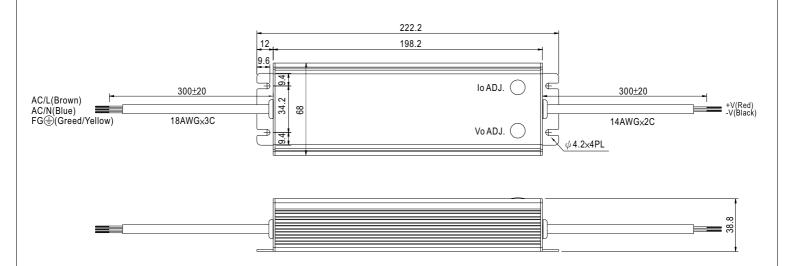
Case No. 954A Unit:mm

Blank:(CLG-150)



%IP67 rated. Cable for I/O connection.

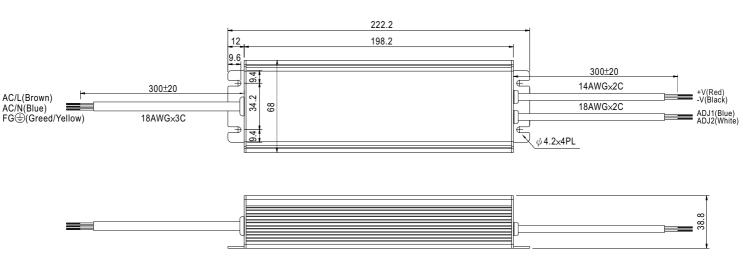
A Type:(CLG-150-_A)



% 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.)



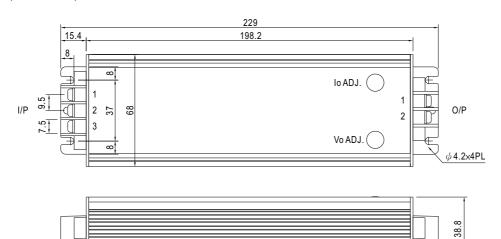
B Type:(CLG-150-_B)



- 💥 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%		
4.7ΚΩ	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



