



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
- 3 years warranty



CLG-150-12 A

- 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

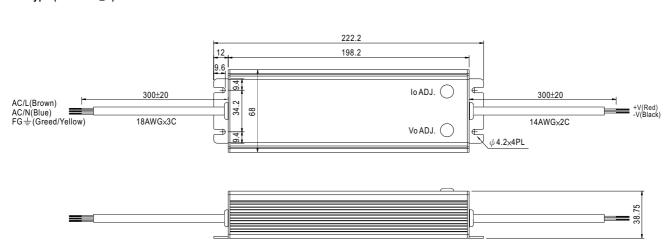
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MODEL		CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V	
ОИТРИТ	LED OPERATION VOLTAGE Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	24 ~ 48V	
	RATED CURRENT	11A	9.5A	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	200mVp-p	
	VOLTAGE ADJ. RANGE Note.6		13 ~ 17V	17 ~ 22V	22 ~ 27V	26 ~ 32V	31 ~ 41V	40 ~ 56V	
	TOLINGLADO. HANGE NOIC.S					20 021	01 410	40 000	
	CURRENT ADJ. RANGE	Can be adjusted by internal potential meter or through output cable $5.5 \sim 11A$ $4.75 \sim 9.5A$ $3.75 \sim 7.5A$ $3.15 \sim 6.3A$ $2.5 \sim 5A$ $2.1 \sim 4.2A$ $1.6 \sim 3.2A$							
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
		±1.0%	±1.0%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION				±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							
		90 ~ 280VAC	127 ~ 396VDC						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	PF≥0.95/230VA0		15VAC at full load	1	T	T	T	
INPUT	EFFICIENCY (Typ.)	88%	88%	90%	90%	90%	89%	89%	
	AC CURRENT	2A / 115VAC	1A / 230VAC						
	INRUSH CURRENT(max.)	COLD START 60A/230VAC							
	LEAKAGE CURRENT	<2mA/240VAC							
	OVER CURRENT Note.4	100 ~ 110% rated output power							
		Protection type: Constant current limiting, recovers automatically after fault condition is removed							
DDOTECTION	OVER VOLTAGE	13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V	
PROTECTION	OVER VOLTAGE	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							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY &	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EN61347-1, EN61347-2-13 approved, meet IP65 or IP67 protection level							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	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 (>50% load) ; EN61000-3-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level, criteria A							
OTHERS	MTBF	303.7Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	222*68*39mm (L*W*H)							
	PACKING	,	g/0.49CUFT(CLG-	150-A/B) 1Kc	; 12pcs/13Kg/0.420	CUFT(CLG-150-C)			
NOTE	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 50% ~100% rated output voltage. This is the suitable operation region for LED related applications.						tions		
	 Constant current operation Derating may be needed upon Type A and type C only. Please refer to derating current 	nder low input volt					.∈∪ related applica	AUOTIS.	

Case No. 954A Unit:mm



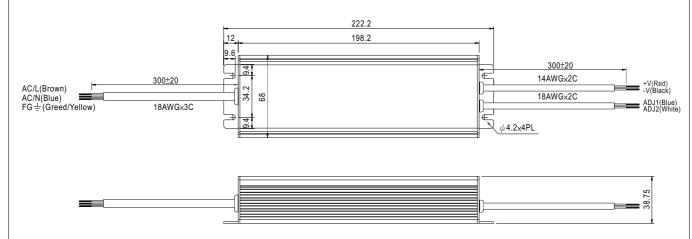
■ Mechanical Specification

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)

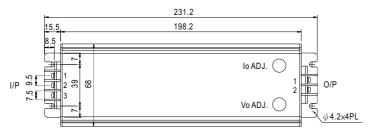


- 💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.
- ※ Reference resistance value for output current adjustment (Typical)

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







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AC Input Terminal Pin No. Assignment

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

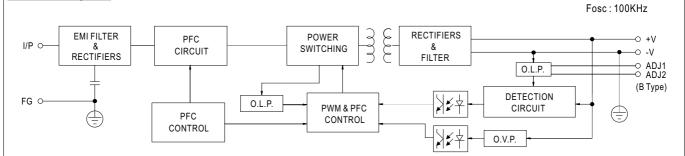
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	+V
2	-V

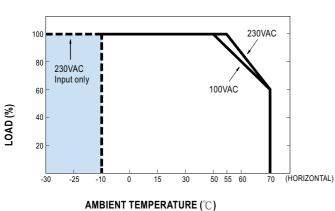
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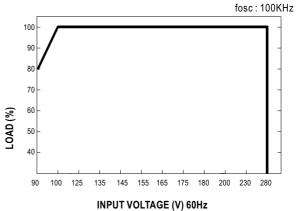
■ Block Diagram



■ Derating Curve



■ Static Characteristics



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