

- 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 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: IP65 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	DA 444 163	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	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	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 full load 230VAC /115VAC							
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.5	90 ~ 280VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	PF≧0.95/230VA	C PF≧0.98/	115VAC at full load	and rated output vo	oltage	111	COM	
	EFFICIENCY (Typ.)	88%	88%	90%	90%	90%	89%	90%	
	AC CURRENT	2A / 115VAC	1A / 230VAC		_ 1.00	W W	All are	1	
	INRUSH CURRENT(max.)	COLD START 65A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
PROTECTION	OVER CURRENT Note.4	LED-Load : CC-mode max. 105% \ CV-mode max. 110% Electronic-Load : CC-mode max. 110% \ CV-mode max. 105%							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT Note.8	Hiccup mode, recovers automatically after fault condition is removed							
	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						C.Com	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	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, IP65 approved (for A,B type only)							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:1.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
	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 (surge 4KV), criteria A							
OTHERS	MTBF	303.7Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	222*68*39mm (L*W*H)							
	PACKING	1.0Kg; 12pcs/13h	Kg/0.49CUFT(CLG	-150-A/B) 1Kg	g; 12pcs/13Kg/0.96	CUFT(CLG-150-C)		
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All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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, 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.

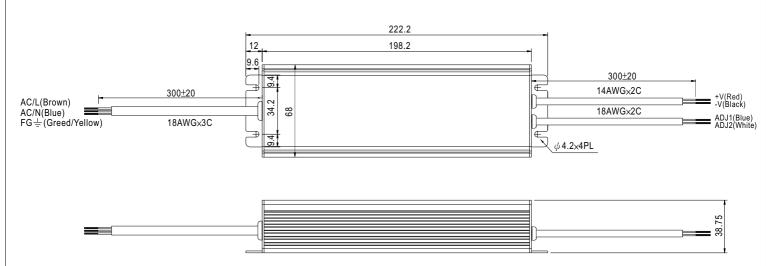


Mechanical Specification A Type:(CLG-150-_A) 222.2 12 198.2 198.2 10 ADJ. AC/I\(\text{Brown}\) AC/I\(\text{Brown}\) AC/I\(\text{Brown}\) AC/I\(\text{Brown}\) FG \(\delta\) (Greed/Yellow) 18AWGx3C Vo ADJ. Vo ADJ. √(Red) √(Clark) √(

※ 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)

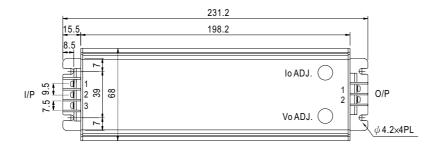


- 💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.
- * Reference resistance value for output current adjustment (Typical)

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



C Type:(CLG-150-_C)



AC Input Terminal Pin No. Assignment

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

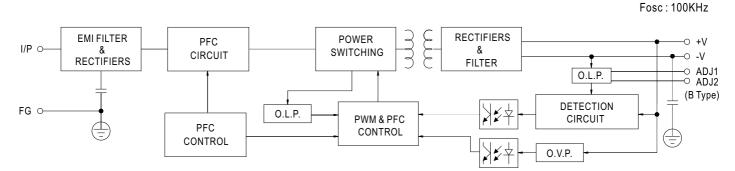


DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	+V
2	-V

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

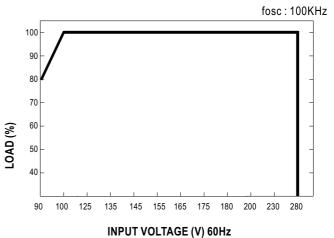
■ Block Diagram



■ Derating Curve

230VAC | 230VAC | 100VAC | 100VAC | 230VAC | 100VAC | 100

■ Static Characteristics



AMBIENT TEMPERATURE (°C)

¾-30°C start up possible for 230VAC input