



Features:

- Universal AC input / Full range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- · OCP point adjustable through output cable or internal potentiometer
- IP65 / IP67 design for indoor or outdoor installations
- · Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 3 years warranty













CLG-150-12 A

Blank: IP67 rated. Cable for I/O connection.

- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.

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	
ОИТРИТ	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 potentiometer 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%	±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							
		90 ~ 295VAC 127 ~ 417VDC							
	FREQUENCY RANGE	47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	POWER FACTOR (Typ.)							· · · · · · · · · · · · · · · · · · ·	
NPUT	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%	
	AC CURRENT (Typ.)	2A / 115VAC 1A / 230VAC 0.68A / 277VAC							
	INRUSH CURRENT(max.)	COLD START 65	A/230VAC						
	LEAKAGE CURRENT	<1mA/240VAC							
	OVER CURRENT (Typ.) Note.4	95 ~ 108%							
	OTER CORRECT (Typ.) Hotel-	Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Hiccup mode, rec	overs automatically	y after fault condition	on is removed				
ROTECTION		13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 36V	42 ~ 48V	57 ~ 65V	
	OVER VOLTAGE	Protection type : \$	Shut down and late	h off o/p voltage, re	e-power on to recov	er			
	OVER TEMPERATURE	100℃ ±10℃ (RTH2)							
		Protection type: Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	,		od for 72min each	along Y V 7 aves				
	VIDIONION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, UL1012; EN61347-1, EN61347-2-13 independent (except for CLG-150 C type); UL60950-1, TUV EN60950-1;							
	SAFETY STANDARDS Note.7	J61347-1 (option, except for CLG-150 C type), J61347-2-13, IP65 or IP67 approved							
SAFETY &	WITHSTAND VOLTAGE								
EMC		I/P-O/P:3.75KVAC							
-1110	EMC EMISSION	, ,			-	00 C (> 750/ I== 1)	- ENG1000 2 2		
		Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥75% load); EN61000-3-3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A							
OTHERS	MTBF	303.7Khrs min. MIL-HDBK-217F (25℃)							
	PACKING	1.0Kg; 12pcs/13Kg/0.58CUFT(CLG-150-Blank/A/B) 1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C)							
NOTE		ally 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.								
		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.							
	0 ,	nder low input voltages. Please check the static characteristics for more details.							
		er to EN60598-1, s	subject 8750(UL), (CNS15233, GB70	00.1, FCC part18.				
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Constant current operation reconfirm special electrical r Derating may be needed ur Type A and type C only. Safety and EMC design refe	222.2*68*38.8mm (L*W*H)(CLG-150-Blank/A/B) 229*68*38.8mm (L*W*H)(CLG-150-C) 1.0Kg; 12pcs/13Kg/0.58CUFT(CLG-150-Blank/A/B) 1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C) 1kg; 12pcs/13kg/0.96CUFT(CLG-150-C							

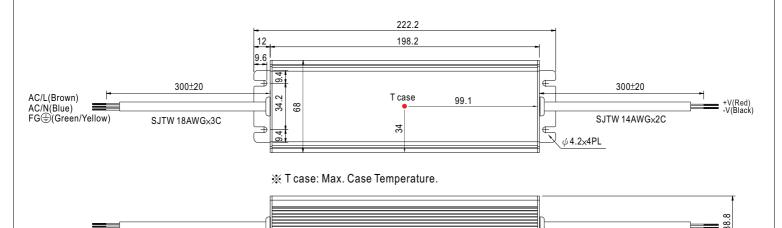
8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



■ Mechanical Specification

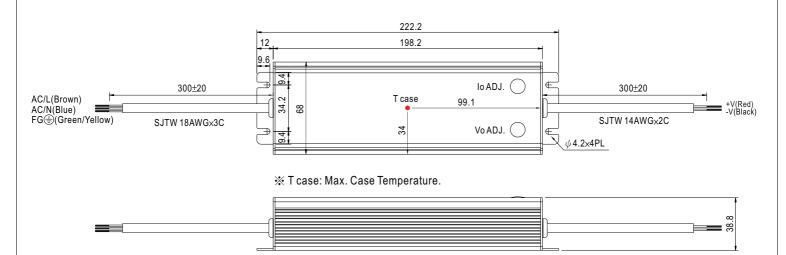
Case No. 954A Unit:mm

Blank:(CLG-150)



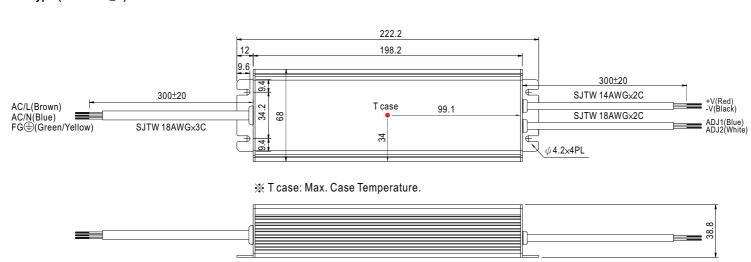
※IP67 rated. Cable for I/O connection.

A Type:(CLG-150-_A)





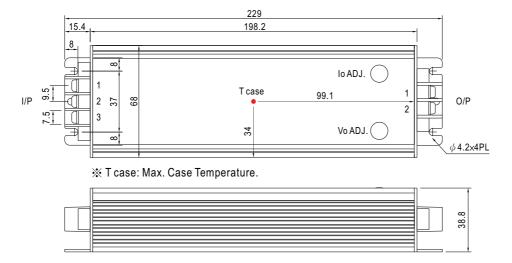
B Type:(CLG-150-_B)



- 💥 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 potentiometer. (Can access by removing the rubber stopper on the case.)

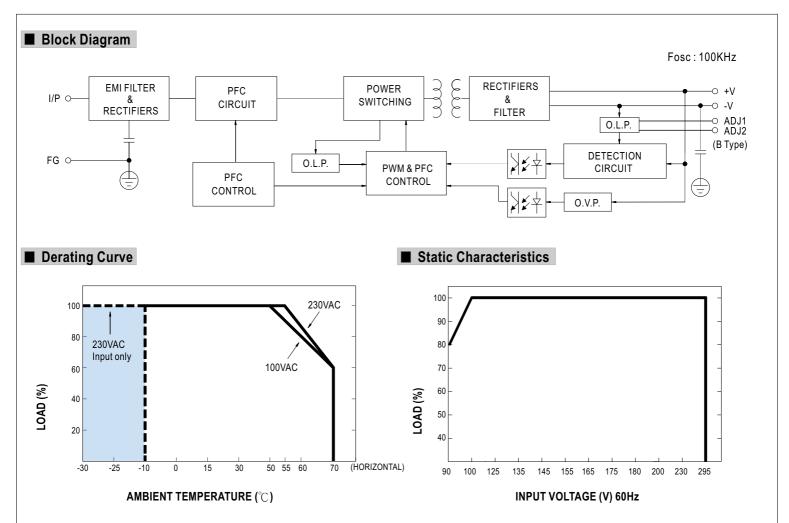
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

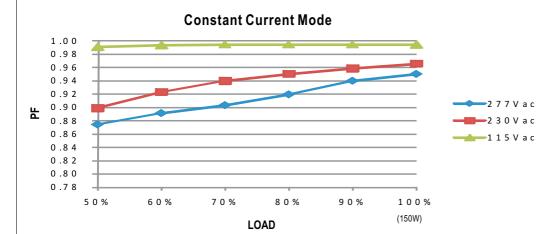
Pin No.	Assignment
1	+V
2	-V





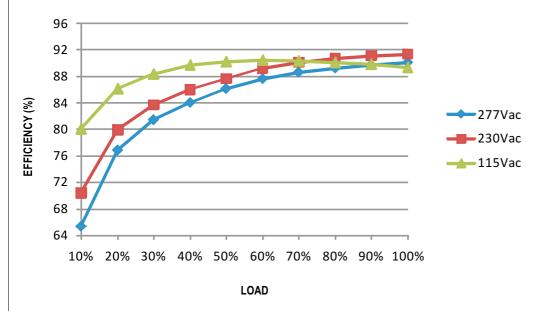


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

CLG-150 series possess superior working efficiency that up to 91% can be reached in field applications.

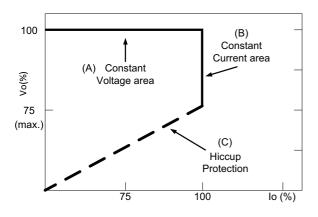


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve