



- 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	AHUN	CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48	
MODEL	DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V	
оитрит	CONSTANT CURRENT REGION Note.4		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	200mVp-p	
	VOLTAGE ADJ. RANGE Note.6		13 ~ 17V	17 ~ 22V	22 ~ 27V	26 ~ 32V	31 ~ 41V	40 ~ 56V	
	CURRENT ADJ. RANGE	· ·	<u> </u>	meter A type and C	· · · · · · · · · · · · · · · · · · ·		1		
		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/11	5VAC 500ms,	80ms/230VAC at f	ull load				
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.5	90 ~ 295VAC 127 ~ 417VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%	
	AC CURRENT (Typ.)	2A / 115VAC	1A / 230VAC	0.68A / 277VAC					
	INRUSH CURRENT(max.)	COLD START 65A(twidth=595 μ s measured at 50% Ipeak) at 230VAC							
	LEAKAGE CURRENT	<1mA / 240VAC							
	OVER CURRENT (Typ.) Note.4	95 ~ 108%							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed							
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	13.5 ~ 17V	18 ~ 23V	23 ~ 28V	28 ~ 34V	33 ~ 39V	42 ~ 50V	59 ~ 70V	
		Protection type :	Shut down and late	h off o/p voltage, re	e-power on to recov	er			
	OVER TEMPERATURE	Protection type: Shut down and latch off o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
ENVIRONMENT		20 ~ 95% RH non-condensing							
	WORKING HUMIDITY 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 STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, UL1012, CAN/CSA-C22.2 No. 107.1-01, UL879, CSA C22.2 No. 207-M89, EN61347-1, EN61347-2-13 independed							
		(except for CLG-150 C type), UL60950-1, TUV EN60950-1, IP65 or IP67, J61347-1(except for CLG-150 C type), J61347-2-13 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	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	303.7K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	222.2*68*38.8mm (L*W*H)(CLG-150-Blank/A/B) 229*68*38.8mm (L*W*H)(CLG-150-C)							
	PACKING		g/0.58CUFT(CLG-			g/0.96CUFT(CLG-	150-C)		
NOTE	Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. and at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. METHODS OF LED MODULE". ander low input voltages. Please check the static characteristics for more details.							

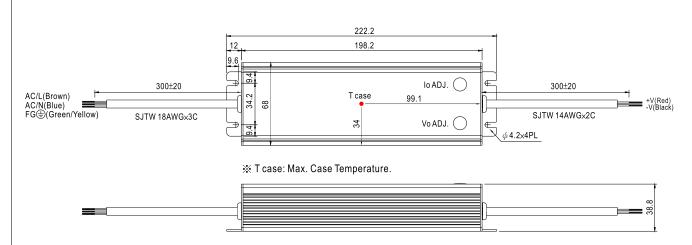
- Derating may be needed under low input voltages. Please check the static characteristics for more details.
 A type and C type only.
 Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
 The power supply is considered as a component that will be operated in combination 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.
- 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.



Blank: (CLG-150) AC/L(Brown) AC/N(Blue) FG⊕ (Green/Yellow) X T case: Max. Case Temperature. Case No. 954A Unit:mm Case No. 954A Unit:mm 300±20 √(Red) √(Red) √(Red) √(A.2x4PL ** T case: Max. Case Temperature.

 \Re IP67 rated. Cable for I/O connection.

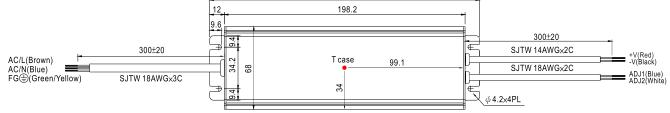
A Type:(CLG-150-_A)



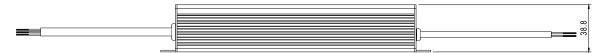
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)



B Type:(CLG-150-_B) 222.2 12 198.2



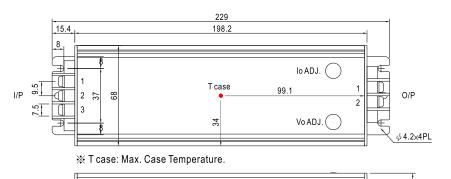
* T case: Max. Case Temperature.



- 💥 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%		
620Ω	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.)

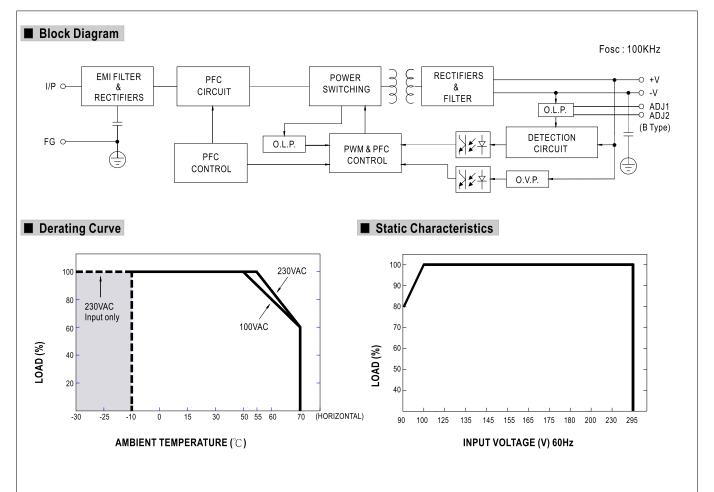
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

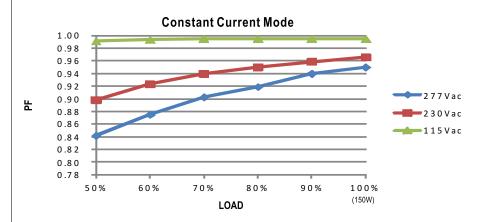
Pin No.	Assignment
1	+V
2	-V





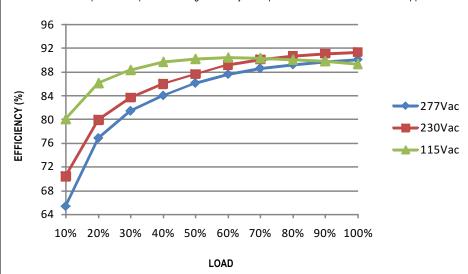


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

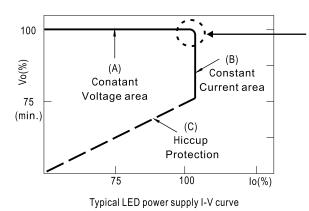


■ DRIVING METHODS OF LED MODULE

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)].



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.