



#### 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**

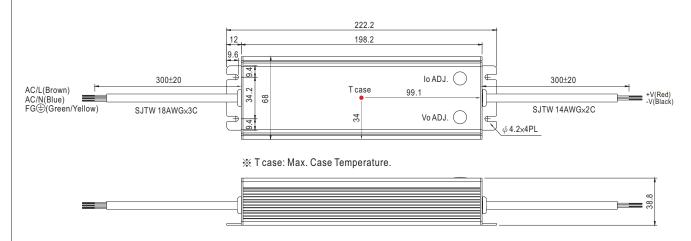
	CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48
DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V
CONSTANT CURRENT REGION Note.4	9 ~12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	36 ~ 48V
RATED CURRENT	11A	9.5A	7.5A	6.3A	5A	4.2A	3.2A
RATED POWER	132W	142.5W	150W	151.2W	150W	151.2W	153.6W
RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
, ,		13 ~ 17V	17 ~ 22V	22 ~ 27V	26 ~ 32V	31 ~ 41V	40 ~ 56V
CURRENT ADJ. RANGE	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/115VAC 500ms, 80ms/230VAC at full load						
HOLD UP TIME (Typ.)							
( ) ( )	90 ~ 295VAC						
		· ·		· · · · · · · · · · · · · · · · · · ·			91%
( • , ,				10070	0.70	0.70	0.70
( ) ( )							
MAX. No. of PSUs on 16A					0VAC		
	.4 4 (040) (4.0						
LEAKAGE CURRENT							
OVER CURRENT (Typ.) Note.4	4 95 ~ 108%						
				•	It condition is remo	oved	
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
OVER VOLTAGE						42 ~ 50V	59 ~ 70V
OVER VOLINGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover						
OVER TEMPERATURE	•						
WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
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						
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 independent						
	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 approve						
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
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 EN	161000-4-2,3,4,5,6	,8,11, EN61547, EI	N55024, light indus	try level (surge 4K\	V), criteria A	
MTBF				-			
DIMENSION	222.2*68*38.8mm	n (L*W*H)(CLG-150	0-Blank/A/B)	229*68*38.8mm (L*	W*H)(CLG-150-C)	)	
PACKING	1.0Kg; 12pcs/13K	g/0.58CUFT(CLG-	150-Blank/A/B)	1Kg; 12pcs/13Kg	g/0.96CUFT(CLG-	150-C)	
Ripple & noise are measure     Tolerance: includes set up:     Please refer to "DRIVING     Derating may be needed un     A type and C type only.     Safety and EMC design refe     The power supply is consider.	d at 20MHz of bar tolerance, line regu METHODS OF L der low input volta er to EN60598-1, sered as a compone al equipment manual	ndwidth by using a ulation and load req .ED MODULE". ges. Please check ubject 8750(UL), C ent that will be ope ufacturers must re-	12" iwisted pair-wigulation.  the static characteches constraints and communication combination qualify EMC Directed in combination combin	ire terminated with eristics for more de 0.1, FCC part18. on with final equipn tive on the complet	a 0.1uf & 47uf partails.  nent. Since EMC pe installation agair	erformance will be	•
	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE Note.6 CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT(max.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT (Typ.) Note.4 SHORT CIRCUIT OVER VOLTAGE  OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 1 4. Please find you provided und 6. A type and C type only. 7. Safety and C type only. 7. Safet you provided installation, the fine	CONSTANT CURRENT REGION Note.4   9 ~12V	CONSTANT CURRENT REGION Note.4  RATED CURRENT  RATED POWER  132W  142.5W  RIPPLE & NOISE (max.) Note.2  150mVp-p  150mVp-p  150mVp-p  VOLTAGE ADJ. RANGE  CURRENT BEGULATION  10.5%  10.5%  10.5%  10.5%  10.0%  ETJ.0%  LIME REGULATION  11.0%  ETJ.0%  ETJ.0%  LOAD REGULATION  11.0%  ETJ.0%  SETUP, RISE TIME  3000ms, 80ms/115VAC  50ms/ 230VAC  16ms / 115VAC  16ms / 115VAC  17 ~ 417VDC  18 ~ 23V  18 ~ 20 ~ 89 % RH noncondensing  18 ~ 70°C (Refer to "Derating Curw  18 ~ 10 ~ 80°C, 10 ~ 95 % RH  18 ~ 10 ~ 80°C, 10 ~ 95 % RH  1	CONSTANT CURRENT REGION Note.4   9 ~ 12V	CONSTANT CURRENT REGION Note.2   9-12V	CONSTANT CURRENT REGION Most.   9-12V	CONSTANT CURRENT   11A   9.5A   7.5A   6.3A   5A   4.2A   4.2A   4.2A   7.5A   6.3A   5A   4.2A   4.2A



### ■ Mechanical Specification Case No. 954A Unit:mm Blank:(CLG-150) 222.2 198.2 300±20 AC/L(Brown) AC/N(Blue) FG (Green/Yellow) 34.2 Tcase 99.1 89 SJTW 18AWG×3C SJTW 14AWG×2C '**€** 34 ※ T case: Max. Case Temperature.

%IP67 rated. Cable for I/O connection.

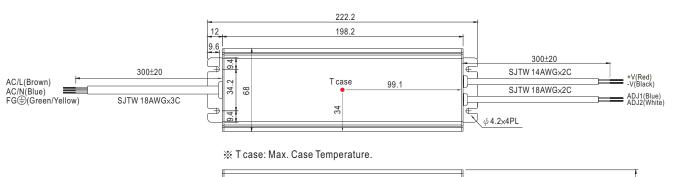
#### A Type:(CLG-150-\_A)



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



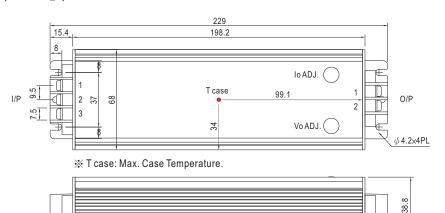
## B Type:(CLG-150-\_B)



- 💥 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.)

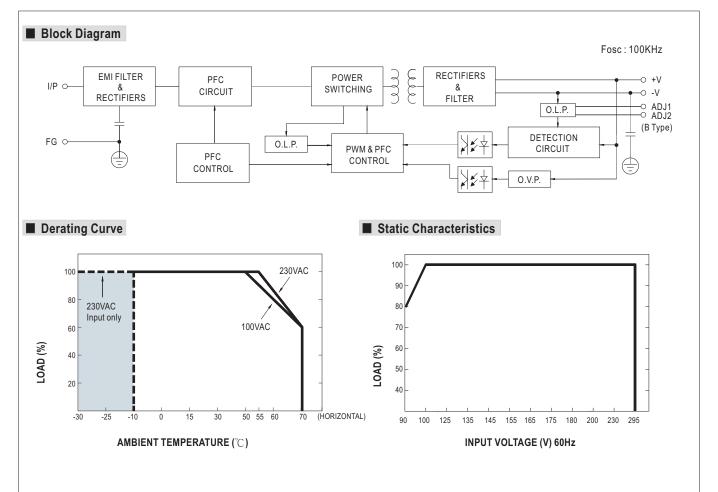
# AC Input Terminal Pin No. Assignment

0	
Pin No.	Assignment
1	FG ±
2	AC/N
3	AC/L

# DC Output Terminal Pin No. Assignment

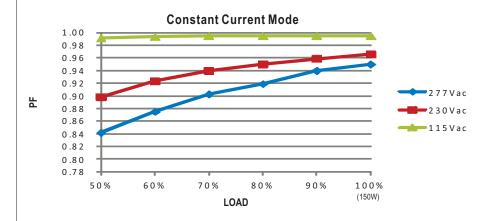
Pin No.	Assignment		
1	+V		
2	-V		





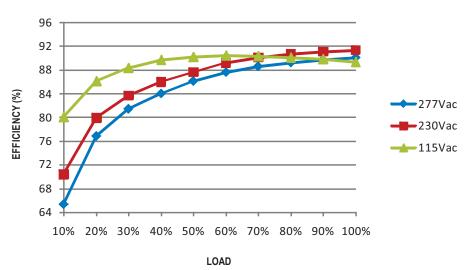


#### ■ Power Factor Characteristic



### ■ EFFICIENCY vs LOAD (48V Model)

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

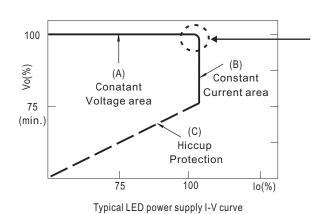


### ■ DRIVING METHODS OF LED MODULE

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.