



■ 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





SELV IP65 IP67 R c Lus La de la company la c









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

SPECIFICATION

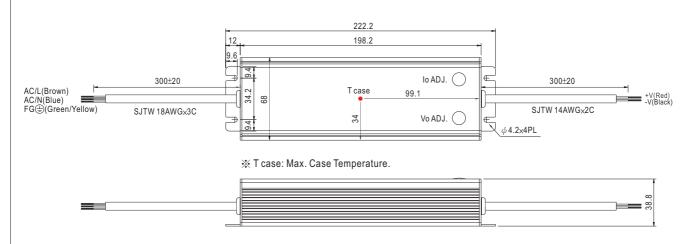
MODEL		CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V	
ОИТРИТ	CONSTANT CURRENT REGION Note.4	9~12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	36 ~ 48V	
	RATED CURRENT	11A	9.5A	7.5A	6.3A	5A	4.2A	3.2A	
	RATED POWER	132W	142.5W	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	
	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 A type and C type only							
		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							
	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 Fa	ctor Characteristic'	curve)	
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(twidth=595 μ s mea	asured at 50% Ipea	k) at 230VAC				
	LEAKAGE CURRENT	<1mA / 240VAC							
	OVER CURRENT (Typ.) Note.4	95~108%							
	OVER CORRECT (Typ.) Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION	OVED VOLTAGE	13.5 ~ 16V	18 ~ 20V	23 ~ 27V	28 ~ 34V	33 ~ 38V	42 ~ 48V	59 ~ 70V	
	OVER VOLTAGE	Protection type :	Shut down and latc	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							
ENVIRONMENT	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							
	CAFFTY CTANDADDO	UL8750, CSA C22.2 No. 250.0-08, UL1012, CAN/CSA-C22.2 No. 107.1-01, EN61347-1, EN61347-2-13 independer							
	SAFETY STANDARDS Note.7	except for CLG-150 C type), UL60950-1, TUV EN60950-1, IP65 or IP67, J61347-1(option, except for CLG-150 C type), J61347-2-13 approv							
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 El	N55015, EN55022 ((CISPR22) Class B	, EN61000-3-2 Cla	ss 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	1.0Kg; 12pcs/13Kg/0.58CUFT(CLG-150-Blank/A/B) 1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C)							
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation : Derating may be needed ur A type and C type only. Safety and EMC design refe	Indig. Tapes in Singlif. 3000 in (CEG-130-6) indig. 3000 indig.							



Blank: (CLG-150) 222.2 AC/L(Brown) AC/N(Blue) FG⊕ (Green/Yellow) XT case: Max. Case Temperature. Case No. 954A Unit:mm 300±20 V(Red) AC/N(Blue) XT 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) 222.2 12 198.2 9.6 AC/L(Brown) AC/N(Blue) AC/N(Blue) FG⊕(Green/Yellow) SJTW 18AWGx3C ADJ1(Blue) ADJ2(White)

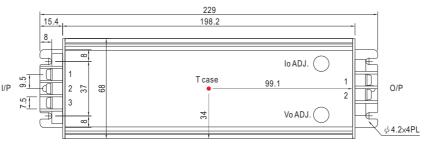
X T case: Max. Case Temperature.



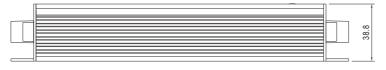
- 💥 IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.
- * Reference resistance value for output current adjustment (Typical)

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

C Type:(CLG-150-_C)



※ T case: Max. Case Temperature.



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

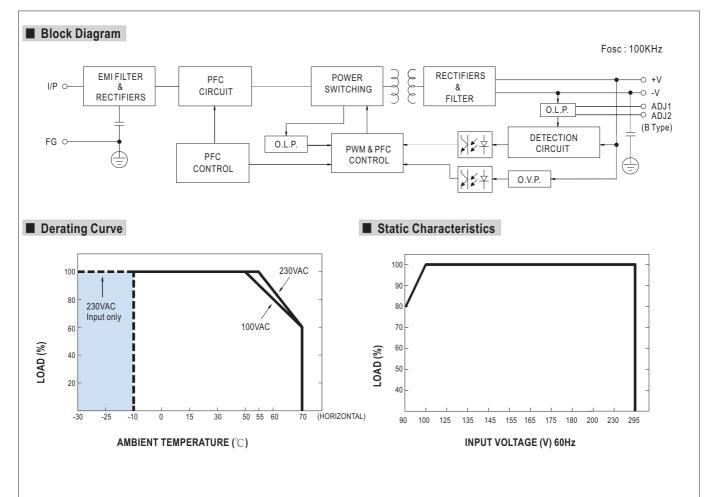
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

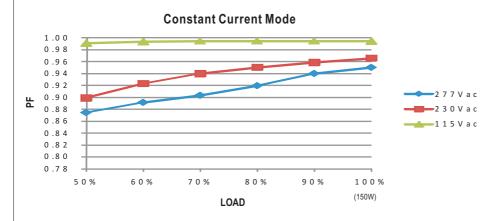
Pin No.	Assignment
1	+V
2	-V





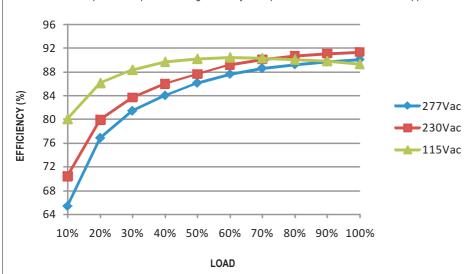


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

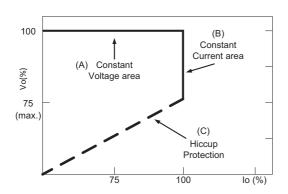


■ DRIVING METHODS OF LED MODULE

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)].



Typical LED power supply I-V curve