

## CLG-150 SERIES 150 Watt LED Power Supply

Measures: 8.75 x 2.68 x 1.53"



## 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

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CLG-150-12 A Blank : IP67 rated. Cable for I/O connection.

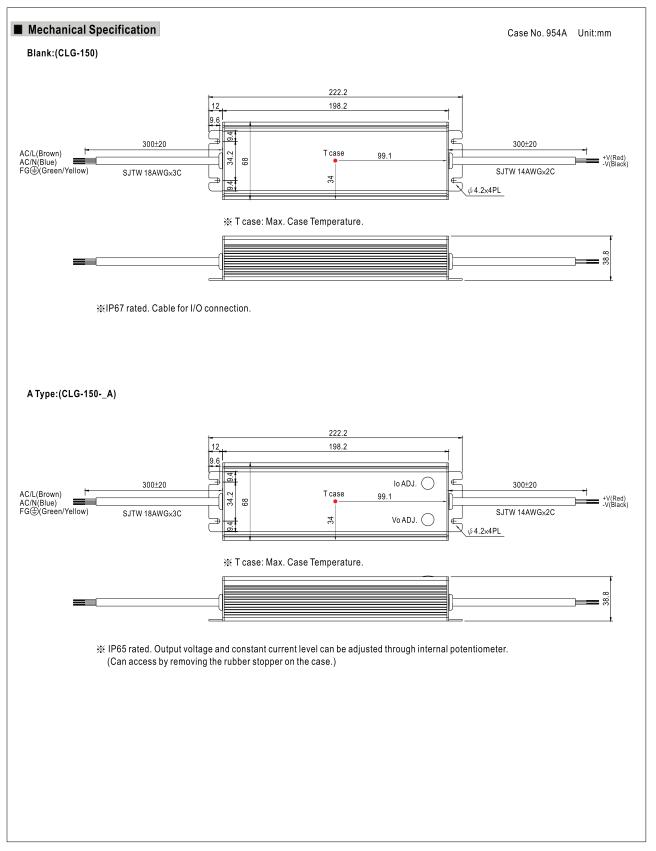
- A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- ${\sf B}$  : IP67 rated. Constant current level adjustable through output cable.
- C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal 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
OUTPUT	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	9~13V	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/115VAC 500ms, 80ms/230VAC at full load						
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load						
INPUT		90 ~ 295VAC 127 ~ 417VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		PE>0 95/230\/AC	PE>0 93/277\/AC	at full load (Please	refer to "Power Fa	ctor Characteristic	" curve)
	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%
	AC CURRENT (Typ.)	2A / 115VAC	1A/230VAC	0.68A / 277VAC	1 00 /0	1 0 1 70	1 9170	0170
	INRUSH CURRENT(max.)							
	LEAKAGE CURRENT	COLD START 65A(twidth=595µs measured at 50% lpeak) at 230VAC						
	LEARAGE CURRENT	<1mA/240VAC						
PROTECTION	OVER CURRENT (Typ.) Note.4	95 ~ 108% Destaction tune : Constant surrout limiting, recovery sutamatically after fault condition is computed						
		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, rec 13.5 ~ 17V		23 ~ 28V	28 ~ 34V	22 201/	40 501/	50 701/
	OVER VOLTAGE		18 ~ 23V			33 ~ 39V	42 ~ 50V	59 ~ 70V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	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 independ						
		(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						
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	1.0Kg; 12pcs/13K	g/0.58CUFT(CLG-	150-Blank/A/B)	1Kg; 12pcs/13Kg	/0.96CUFT(CLG-	150-C)	
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>A type and C type only.</li> <li>Stafety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.</li> <li>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.</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanent connected to the mains.</li> </ol>							

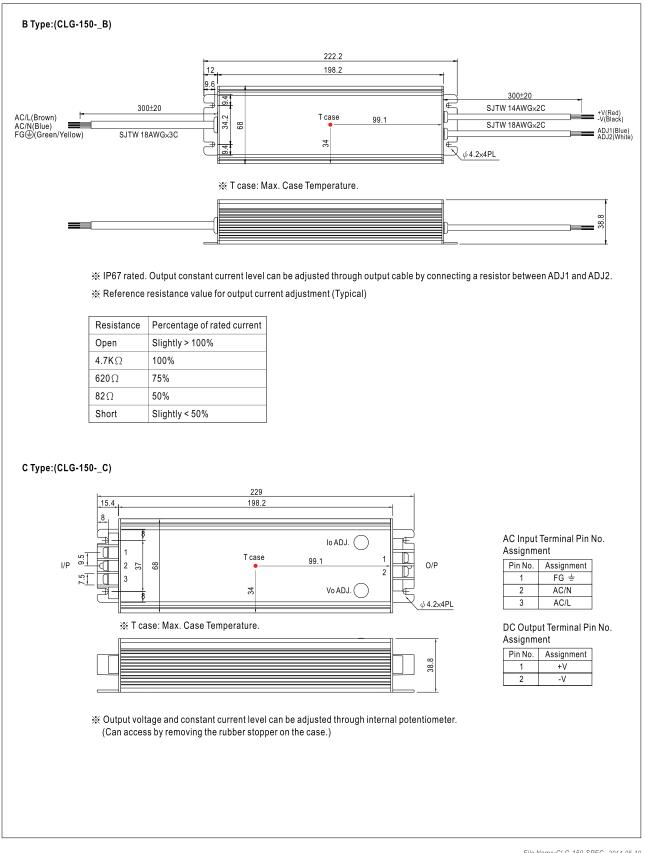


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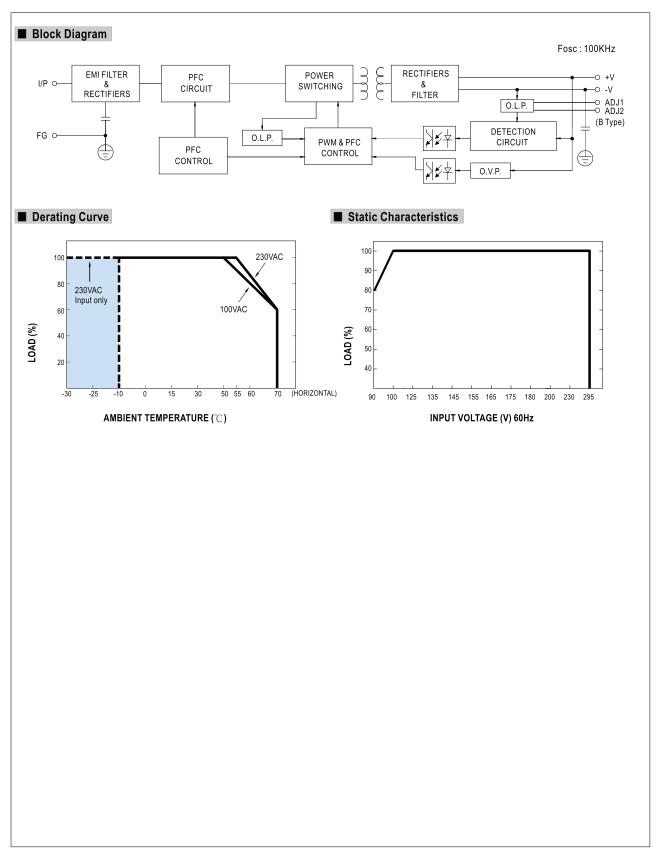


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