

CLG-100 series



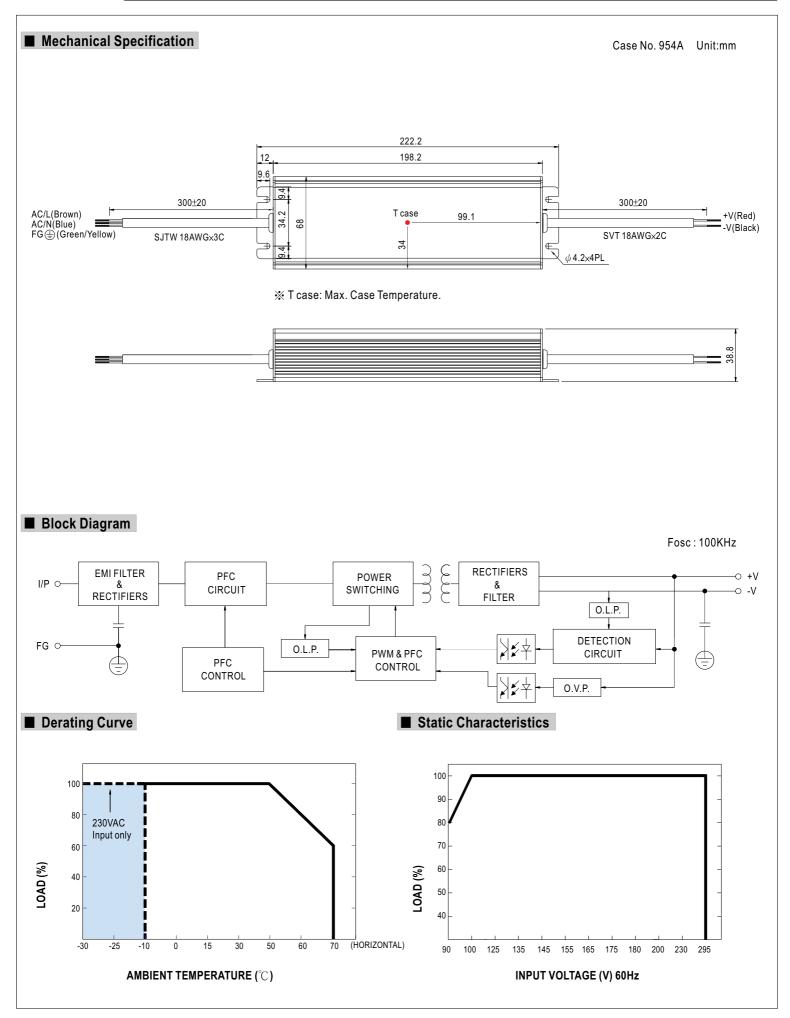
Features :

- Universal AC input / Full range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 88.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- IP67 design for indoor or outdoor installations
- · Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty (Note.6)

MODEL		CLG-100-12	CLG-100-15	CLG-100-20	CLG-100-24	CLG-100-27	CLG-100-36	CLG-100-48	
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V	
	CONSTANT CURRENT REGION Note.7	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36~48V	
	RATED CURRENT Note.5	5A	5A	4.8A	4A	3.55A	2.65A	2A	
	RATED POWER Note.5		75W	96W	96W	95.85W	95.4W	96W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	Fixed. Can be modified between 0% ~ -15% rated output voltage							
	CURRENT ADJ. RANGE	Fixed. Can be modified between 3% ~ -25% rated output current							
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	
	LINE REGULATION	±1.0%		-		-			
	LOAD REGULATION	±2.0%							
	SETUP, RISE TIME	1200ms, 80ms / 230VAC 1200ms, 80ms / 115VAC at full load							
	HOLD UP TIME (Typ.)	60ms / 230VAC 30ms / 115VAC at full load							
INPUT									
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)		C. PF>0.95/230VA	C. PF>0.92/277VA	C at full load (Pleas	se refer to "Power F	actor Characteristi	c" curve)	
	EFFICIENCY (Typ.)	83%	85%	88.5%	88.5%	88%	88%	88.5%	
			AC 0.4A/230VAC	0.3A/277VAC		AC 0.45A/230VA			
	AC CURRENT (Typ.)	20V ~ 48V:1.1A/115VAC 0.55A/230VAC 0.45A/277VAC							
	INRUSH CURRENT(max.)	COLD START 40A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 240VAC							
PROTECTION		95 ~ 102%							
	OVER CURRENT (Typ.)	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39~48V	52 ~ 64V	
		Protection type : Shut down and latch off o/p voltage, re-power on to recover 90°C ±10°C (RTH2)							
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	$-30 \sim +70^{\circ}$ (Refer to "Derating Curve")							
ENVIRONMENT		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							
		UL879. UL8750. UL1310. TUV EN61347-1. EN61347-2-13 independent. CAN/CSA C22.2 No. 223-M91(except for 48V						(cent for 18\/)	
	SAFETY STANDARDS Note.8	CSA C22.2 No. 250.0-08(except for 48V), CSA C22.2 No. 207-M89(except for 48V), TUV EN60950-1, IP67, J61347-1, J61347-2-13(option) appr							
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC							
MC	ISOLATION RESISTANCE								
LINC	EMC EMISSION	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥75% load) ; EN61000-3-3							
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A							
	MTBF								
OTHERS	DIMENSION	301Khrs min. MIL-HDBK-217F (25℃) 222.2*68*38.8mm (L*W*H)							
	PACKING	1.0Kg; 12pcs/13Kg/0.58CUFT							
		Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.							
DTE		pple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.							
		p tolerance, line regulation and load regulation.							
		under low input voltages. Please check the static characteristics for more details. ible output current and power, over load protection may be activated slightly below this level to comply with the requirement							
	of UL1310 class 2.				, so activated slig			oqui ornorit	
	6. 3 years warranty is guarante					overlag vertice f	ED valate di ava "	بالمعالم معالم	
		n region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please I requirements for some specific system design.							
		fer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the							

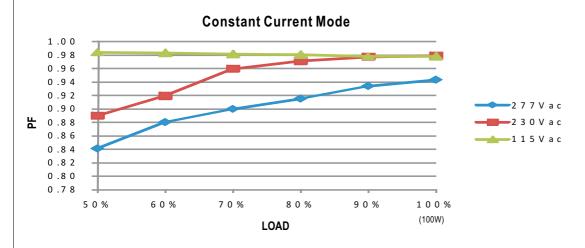


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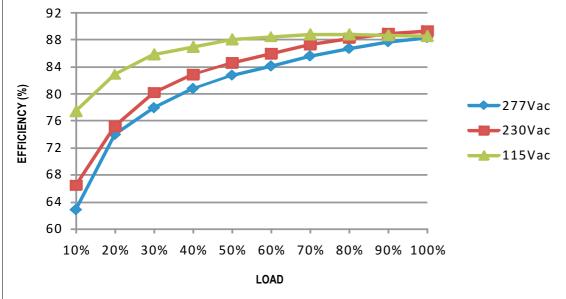


Power Factor Characteristic



EFFICIENCY vs LOAD (48V Model)

CLG-100 series possess superior working efficiency that up to 89% 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)].

