



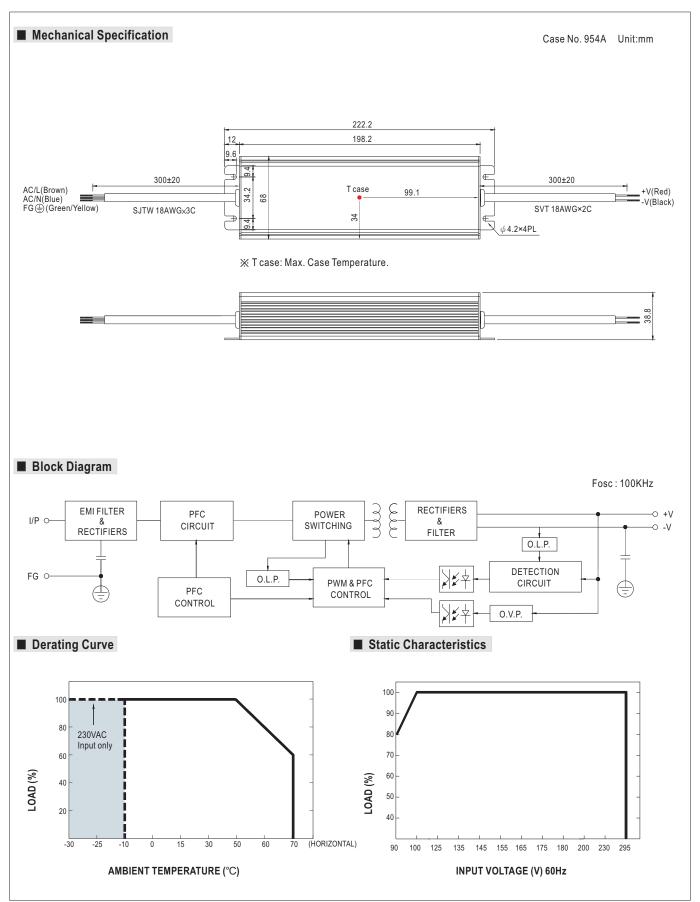
Features :

- 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)

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SPECIFICATION				

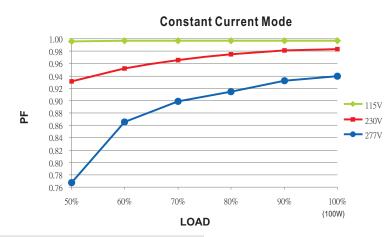
MODEL		CLG-100-12	CLG-100-15	CLG-100-20	CLG-100-24	CLG-100-27	CLG-100-36	CLG-100-48				
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V				
	CONSTANT CURRENT REGION Note.7	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36 ~ 48V				
	RATED CURRENT Note.5	5A	5A	4.8A	4A	3.55A	2.65A	2A				
	RATED POWER Note.5	60W	75W	96W	96W	95.85W	95.4W	96W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	Fixed. Can be mo	dified between 0%	~ -15% rated out	put voltage							
	CURRENT ADJ. RANGE	Fixed. Can be mo	dified between 3%	~ -25% rated out	put 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	500ms, 80ms / 23	30VAC 1200m	s, 80ms / 115VAC	at full load							
	HOLD UP TIME (Typ.)	60ms / 230VAC	30ms / 115VAC	C at full load								
	VOLTAGE RANGE Note.4	90 ~ 295VAC	127 ~ 417VDC									
l h	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.95/115VAC	, PF>0.95/230VAC	, PF>0.92/277VA	C at full load (Pleas	se refer to "Power F	actor Characteristi	c" curve)				
	TOTAL HARMONIC DISTORTION	PF>0.95/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve) THD< 20% when output loading≧75% at 115VAC/230VAC input and output loading≧75% at 277VAC input										
	EFFICIENCY (Typ.)	83%	85%	88.5%	88.5%	88%	88%	88.5%				
		12V:0.8A/115VA	C 0.4A/230VAC	0.3A/277VAC	15V:0.9A/115V/	AC 0.45A/230VA	C 0.35A/277VAC					
	AC CURRENT (Typ.)	20V ~ 48V:1.1A/115VAC 0.55A/230VAC 0.45A/277VAC										
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth=1030µs measured at 50% Ipeak) at 230VAC										
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/240VAC										
	OVER CURRENT (Typ.)	95 ~ 102%										
		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 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V				
		Protection type :	Shut down and late	ch off o/p voltage.	re-power on to reco	over						
	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")										
	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 & EMC	VIDIO (110)	UL879, UL8750, UL1310, TUV EN61347-1, EN61347-2-13 independent, CAN/CSA C22.2 No. 223-M91(except for 48V),										
	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 approved										
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
	ISOLATION RESISTANCE				KVAC							
	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										
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A										
	MTBF				EN33024, light mut	ustry lever (surge 4)	KV), CITIETIA A					
OTHERS		301Khrs min. MIL-HDBK-217F (25°C)										
	DIMENSION	222.2*68*38.8mm (L*W*H) 1.0Kq; 12pcs/13Kq/0.58CUFT										
	PACKING 1. All parameters NOT special	0, 1		AC input rated to	and 25°C of o	mhiant tamparatur	<u> </u>					
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur This is the maximum possit of UL1310 class 2. 3 years warranty is guarante Please refer to "DRIVING N Safety and EMC design refe	red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. Inder low input voltages. Please check the static characteristics for more details. Iible output current and power, over load protection may be activated slightly below this level to comply with the requirement lited for operating ambient temperature no higher than 68°C. METHODS OF LED MODULE". Ifer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. Idered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the										
	complete installation, the fin 10. To fulfill requirements of th connected to the mains.	al equipment mar	nufacturers must re	-qualify EMC Dire	ective on the comp	Diete installation ag	ain.	Ť				





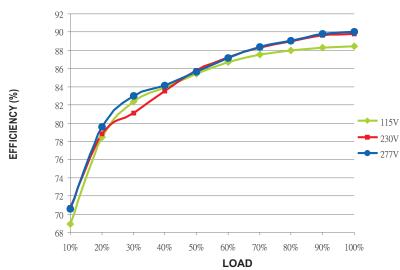


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

CLG-100 series possess superior working efficiency that up to 88.5% can be reached in field applications.

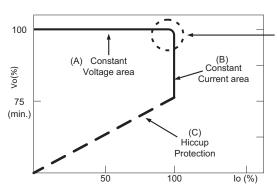


■ DRIVING METHODS OF LED MODULE

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

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.