



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)











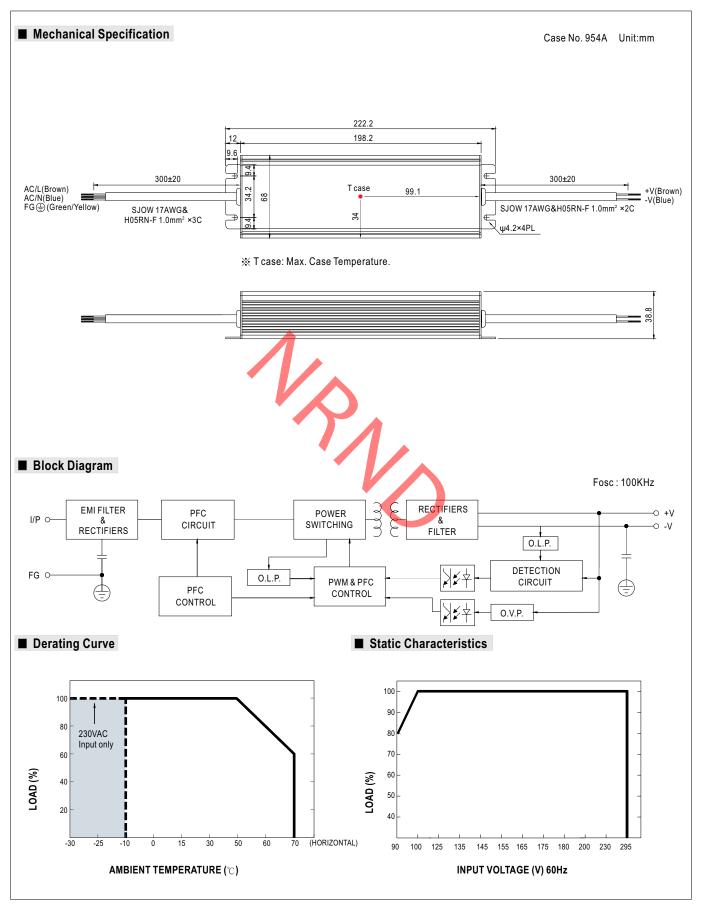
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MODEL		CLG-100-12	CLG-100-15	CLG-100-20	CLG-100-24	CLG-100-27	CLG-100-36	CLG-100-48			
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V			
	CONSTANT CURRENT REGION Note.7	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36 ~ 48V			
	RATED CURRENT 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			
DUTPUT	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	500ms, 80ms / 230VAC 1200ms, 80ms / 115VAC at full load									
	HOLD UP TIME (Typ.)	60ms / 230VAC 30ms / 115VAC at full load									
	VOLTAGE RANGE Note.4	90 ~ 295VAC	127~417VDC								
INPUT I	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/115VAC	PF>0.95/230VAC	, PF>0.92/277VAC	at full load (Pleas	e refer to "Power F	actor Characteristi	c" curve)			
	TOTAL HARMONIC DISTORTION	THD< 20% when	output loading <mark>≧7</mark>	5% at 115VAC/230	VAC input and ou	ıtput loading≧75%	at 277VAC input				
	EFFICIENCY (Typ.)	83%	85%	88.5%	88.5%	88%	88%	88.5%			
	AC CURRENT (Typ.)	12V:0.8A/115VA	0.4A/230VAC	0.3A/277VAC	15V:0.9A/115V	AC 0.45A/230VA	C 0.35A/277VAC				
		20V ~ 48V:1.1A/115VAC 0.55A/230VAC 0.45A/277VAC									
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth=1030µs measured at 50% lpeak) 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 / 240VA	С								
	OVER CURRENT (Typ.)	95 ~ 102%									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V			
	OVER VOLTAGE	Protection type :	Shut down and lato	h off o/p voltage, re	e-power on to reco	ver					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
ENVIRONMENT :	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.8	UI879, UL1310, UL8750, CSA C22.2 No. 207-M89, EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent, TUV EN60950-1, CAN/CSA C22									
		No.223-M91(except for 48V), CAN/CSA C22.2 No. 250.13-12,GB19510.1,GB19510.14,J61347-1, J61347-2-13,EAC TP TC 004,IP67 approve									
		design refer to UL60950									
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:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (≥75% load) ; EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), EAC TP TC 020									
	MTBF	301Khrs min.	MIL-HDBK-217F (2	!5°C)							
OTHERS	DIMENSION	222.2*68*38.8mm (L*W*H)									
	PACKING	1.0Kg; 12pcs/13k									
NOTE	All parameters NOT special Ripple & noise are measure	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance: includes set up tolerance, line regulation and load regulation. rating may be needed under low input voltages. Please check the static characteristics for more details.									

- 5. This is the maximum possible output current and power, over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2.

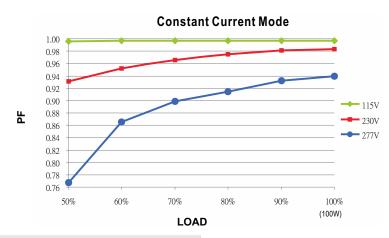
- Please refer to "DRIVING METHODS OF LED MODULE".
 Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
 The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.





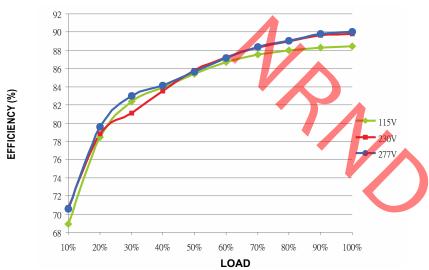


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

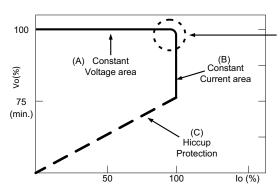


■ DRIVING METHODS OF LED MODULE

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.