

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features:

- · Universal AC input / Full range (up to 295VAC)
- · Built-in active PFC function
- High efficiency up to 89%
- 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 (Note.2)
- · Compliance to worldwide safety regulations for lighting

CLG-60-27

- Suitable for dry / damp / wet locations
- 3 years warranty

(A) (110/ M/ M/ SELV | PS | P67 (PS)



CLG-60-20



CLG-60-24







CLG-60-36



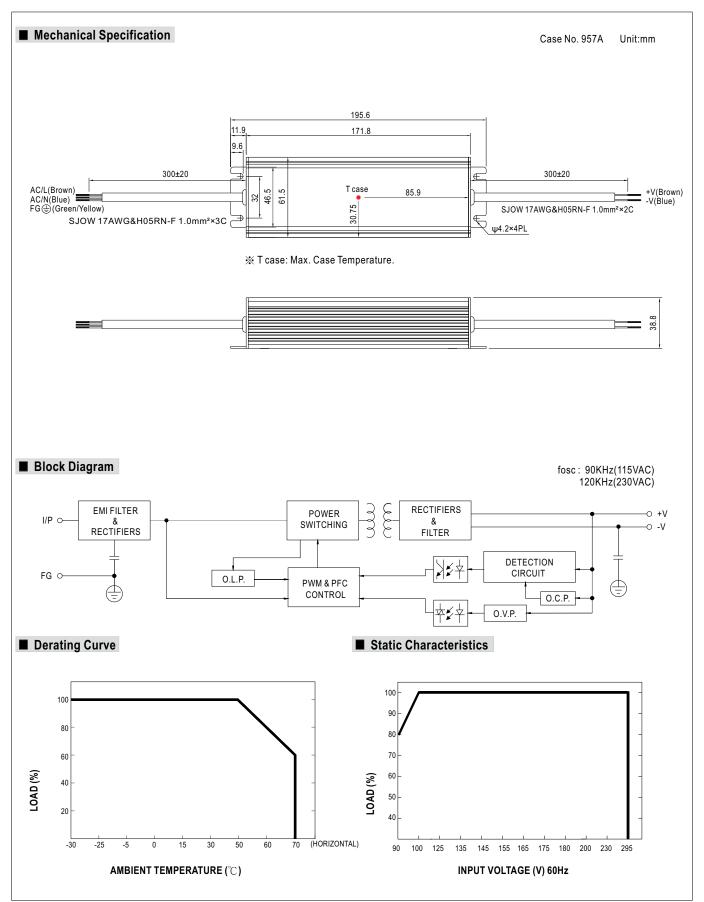
CLG-60-48

MODEL			CLG-60-12	CLG-60-15
SPECIFICATION		·		
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MODEL		CLG-00-12	CEG-00-13	CLG-00-20	CLG-00-24	CLG-00-21	CLG-00-30	CLG-00-40		
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V		
	CONSTANT CURRENT REGION Note.5	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V		
	RATED CURRENT	5A	4A	3A	2.5A	2.3A	1.7A	1.3A		
	CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.7A	0 ~ 1.3A		
	RATED POWER	60W	60W	60W	60W	62.1W	61.2W	62.4W		
ОИТРИТ	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	4.6Vp-p		
	VOLTAGE ADJ. RANGE	11.5 ~ 13V	14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8V		
		Fixed can be mo	dified between the	range above						
	CURRENT ADJ. RANGE		odified between 39		utput current					
	VOLTAGE TOLERANCE Note.3	±10%								
	LINE REGULATION	±3.0%								
	LOAD REGULATION	±5.0%								
	SETUP TIME	500ms / 230VA0	3000ms / 115VA	AC at full load						
		90 ~ 295VAC	127 ~ 417VDC							
	FREQUENCY RANGE	47 ~ 63Hz	.220							
	POWER FACTOR (Typ.)		C. PF>0.9/230VAC	C. PF>0.9/277VAC	at full load (Pleas	e refer to "Power F	actor Characteristic	c" curve)		
	TOTAL HARMONIC DISTORTION		-		•		5% at 277VAC inpu			
NPUT	EFFICIENCY (Typ.)	85%	86%	87.5%	87%	88%	89%	89%		
	AC CURRENT (Typ.)	0.8A/115VAC	0.4A/230VAC	0.3A/277VA		3070	0070	3070		
	INRUSH CURRENT(Typ.)		5A(twidth=45µs me							
	MAX. No. of PSUs on 16A				,					
	CIRCUIT BREAKER	32 units (circuit	breaker of type B)	/ 32 units (circuit	breaker of type C)	at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 240V	/AC							
	LLANAGE CONNENT									
	OVER CURRENT	95 ~ 110% Protection time (Constant current limiting, recovers outcomplically often fault condition in removed.)								
	OLIOPE OIDOUE	Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT	13.8 ~ 16V	17.5 ~ 21V	23 ~ 28V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V		
	OVER VOLTAGE		: Shut down o/p vo			31 ~ 334	41 ** 40 V	34 ° 00 V		
	OVED TEMPEDATURE		oltage, recovers a	<u> </u>		aa dawa				
	OVER TEMPERATURE		•	•	er temperature go	es down				
	WORKING TEMP.	`	efer to "Derating Cu	urve)						
	WORKING HUMIDITY									
ENVIRONMENT	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~	,							
	VIBRATION		12min./1cycle, per							
	SAFETY STANDARDS						N/CSA C22.2 No. 22	` '		
		CSA C22.2 No. 250.0-08(except for 48V), CSA C22.2 No. 207-M89(except for 48V), GB19510.14,J61347-1, J61347-2-13,								
		EAC TP TC 004,								
SAFETY &	WITHSTAND VOLTAGE		/AC I/P-FG:2KV		5KVAC					
EMC	ISOLATION RESISTANCE		hms / 500VDC / 25							
	EMC EMISSION						d GB17625.1, EAC			
	EMC IMMUNITY	Compliance to E	EN61000-4-2,3,4,5	,6,8,11, EN55024	, EN61547, light ir	dustry level (surge	4KV), EAC TP TC	020		
OTHERS	MTBF	495.7Khrs min.	MIL-HDBK-217	F (25°C)						
	DIMENSION	195.6*61.5*38.8	Bmm (L*W*H)							
	PACKING	0.86Kg; 16pcs/1	4.8Kg/0.54CUFT							
NOTE	2. Ripple & noise are measure	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. End at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation.								

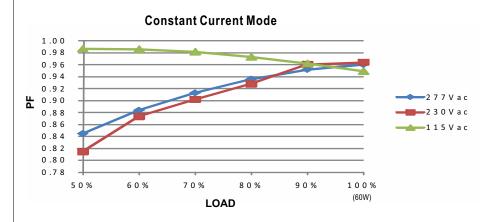
- 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 5. Please refer to "DRIVING METHODS OF LED MODULE".
- 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.





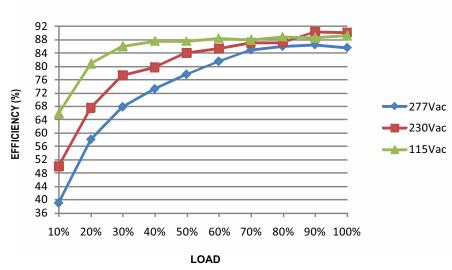


■ Power Factor Characteristic



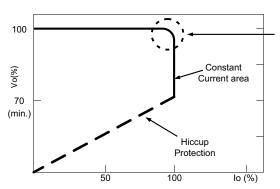
■ EFFICIENCY vs LOAD (48V Model)

CLG-60 series possess superior working efficiency that up to 89% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



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.