

# CLG-100 Series

## 100W Single Output LED Lighting PSU



### FEATURES

- Universal AC input / full range
- Short circuit / Overload / Over-voltage / Over-temperature protections
- Built-in active PFC function
- IP67 design for indoor or outdoor installations
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- 20V, 27V & 36V versions available

### ENVIRONMENTAL

Operating Temp: -30 to +70°C (with de-rating)

Storage Temp: -40 to +80°C

### SAFETY / EMC

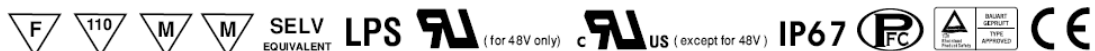
UL1310 Class 2  
EN60950-1  
CAN/CSA C22.2 No. 223-M91 (except 48V)  
EN61347-1, EN61347-2-13  
IP67 approved

EN55015  
EN55022 (CISPR22) Class B  
EN61000-3-2,-3  
EN61000-4-2, 3, 4, 5, 6, 8, 11  
ENV50204  
EN55024  
EN61547  
Light industry level, criteria A

### ELECTRICAL SPECIFICATIONS

Model No.	CLG-100-XX			
XX	12	15	24	48
AC Input	90-264VAC, Single Phase, 47-63Hz			
Power Factor	PF>0.95/230Vac		PF>0.98/115Vac at full load	
DC Output				
Voltage	12V	15V	24V	48V
Current (5)	0-5A	0-5A	0-4A	0-2A
Rated Power (5)	60W	75W	96W	96W
Ripple & noise (p-p) (2)	150mV	150mV	150mV	200mV
Voltage Tolerance (3)	±3.0%	±3.0%	±3.0%	±2.0%
Line Regulation	±1.0%			
Load Regulation	±2.0%			
	95-100%			
Overload	Constant I limiting. Recovers automatically when fault removed.			
	13-16V	16.5-20V	27-34V	52-64V
Over Voltage	Shut down output voltage. Re-power on to recover.			
Over Temperature	Shut down output voltage. Re-power on to recover.			
Dimensions	222(L) x 68(W) x 39(H)mm			
Weight	1.0Kg			

- Notes:**
1. All parameters *NOT* specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
  2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF and 47µF parallel capacitor.
  3. Tolerance includes set up tolerance, line and load regulation.
  4. De-rating may be needed under low input voltage conditions. Consult sales for more details.
  5. This is the maximum possible output current and power, overload protection may be activated slightly below this level to comply with the requirement of UL1310 Class 2.



Specifications subject to change without notice

### Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565

Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com

web: www.safety-power.com