



A BIT OF LIGHT PTY LTD TRADING AS

Starlight Lighting

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DATA SHEET 2011

Luminaries type	Wide angle	Concave LED
<i>Color</i> 2700k+- 500 - 0411		<i>Warm White</i>
Voltage	0.16w per LED	12 volt
Rated IP66		ABS molded fitting
Maximum run	Roll length	100m
150mm standard spacing	Black figure 8 cable	Runs in parallel
Total output		100 watt



LED-S-TLW-480L



150W Single Output Switching Power Supply

CLG-150 series



- Features :
 - Universal AC input / Full range (up to 235VAC)
 - High efficiency 91%
 - Protections: Short circuit / Overload / Over voltage / Over temperature
 - Built-in active PFC function
 - Cooling by free air convection
 - OCP point adjustable through output cable or internal potential meter
 - Suitable for LED lighting and moving sign applications
 - IP65 / IP67 design for indoor or outdoor installations
 - Compliance to worldwide safety regulations for lighting
 - 3 years warranty



CLG-150-12 [A] Blank : IP67 rated. Cable for I/O connection.
 A : IP65 rated. Output voltage and constant current level can be adjusted through internal potential meter.
 B : IP67 rated. Constant current level adjustable through output cable.
 C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potential meter.

MODEL	CLG-150-12	CLG-150-15	CLG-150-20	CLG-150-24	CLG-150-30	CLG-150-36	CLG-150-48
DC VOLTAGE	12V	15V	20V	24V	30V	36V	48V
CONSTANT CURRENT REGION (max.)	9~12V	11.25~15V	15~20V	18~24V	22.5~30V	27~36V	36~48V
RATED CURRENT	11A	9.5A	7.5A	6.2A	5A	4.2A	3.2A
RATED POWER	132W	142.5W	150W	151.2W	150W	151.2W	153.6W
RIPPLE & NOISE (max.) (Note 2)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
VOLTAGE ADJ. RANGE (Note 3)	9~13V	11~17V	17~22V	22~27V	26~32V	31~41V	40~50V
CURRENT ADJ. RANGE	Can be adjusted by internal potential meter or through output cable						
VOLTAGE TOLERANCE (Note 3)	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
SETUP, RISE TIME	100ms, 80ms at full load, 230VAC / 150VAC						
HOLD UP TIME (Typ.)	50ms / 230VAC, 30ms / 110VAC at full load						
VOLTAGE RANGE (Note 4)	90~265VAC, 127~415VDC						
FREQUENCY RANGE	47~63Hz						
POWER FACTOR	PF ≥ 0.99(230VAC)		PF ≥ 0.98(110VAC at full load and rated output voltage)			PF ≥ 0.9 at 75~100% load	
EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%
AC CURRENT	2A / 110VAC, 1A / 230VAC						
INRUSH CURRENT (max.)	COLD START 45A(230VAC)						
LEAKAGE CURRENT	<1mA / 240VAC						
OVER CURRENT (Typ.) (Note 4)	95~100%						
SHORT CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed						
OVER VOLTAGE	Hoop mode, recovers automatically after fault condition is removed						
OVER TEMPERATURE	Protection type: Shut down stop voltage, re-power on to recover						
WORKING TEMP	35~+70°C (Refer to output load derating curve)						
WORKING HUMIDITY	20~95% RH (non-condensing)						
STORAGE TEMP, HUMIDITY	-40~+80°C, 10~95% RH						
TEMP. COEFFICIENT	30.03%/°C (5~95°C)						
VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axis						
SAFETY STANDARDS (Note 7)	UL8750, UL1912, EN61347-1, EN61347-2-13 independent (except for CLG-150-C type), UL60950-1, TUV EN60950-1, A1347-1(option, except for CLG-150-C type), A1347-2-13, IP65 or IP67 approved						
WITHSTAND VOLTAGE	IP-OP: 3.75KVAC, IP-FG: 1.8KVAC, OP-FG: 0.5KVAC						
ISOLATION RESISTANCE	IP-OP, IP-FG, OP-FG: 100M Ohms / 500VDC / 25°C / 70% RH						
EM CONDUCTION & RADIATION	Compliance to EN55015, EN55022, CISPR22, Class B						
HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (at 75% load), EN61000-3-3						
EMS IMMUNITY	Compliance to EN1500-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61347, EN55024, light industry level (surge 4kV), criteria A						
MTBF	303,760hrs (MIL-HDBK-217F (25°C))						
DIMENSION	222.2*68.38 8mm (L*W*H) (CLG-150-Blank/A/B)		229.6*72.8mm (L*W*H) (CLG-150-C)				
PACKING	1.2kg / 12pcs(12kg) 60CUFF (CLG-150-Blank/A/B)		1kg / 12pcs(12kg) 60CUFF (CLG-150-C)				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz or bandwidth by using a 10" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Constant current operation region is within 75%~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 5. Derating may be needed under low input voltages. Please check the data characteristics for more details. 6. Type A and type C only. 7. Safety and EMC design refer to EN60950-1, subject 6769(A), CNS15223, GB7000.1, FCC part1B. 8. 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.						