



■ Features :

- Universal AC input / Full range (up to 295VAC)
- High efficiency 90%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- IP67 design for indoor or outdoor installations
- UL1310 Class 2 power unit
- Pass LPS
- Cooling by free air convection
- 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)

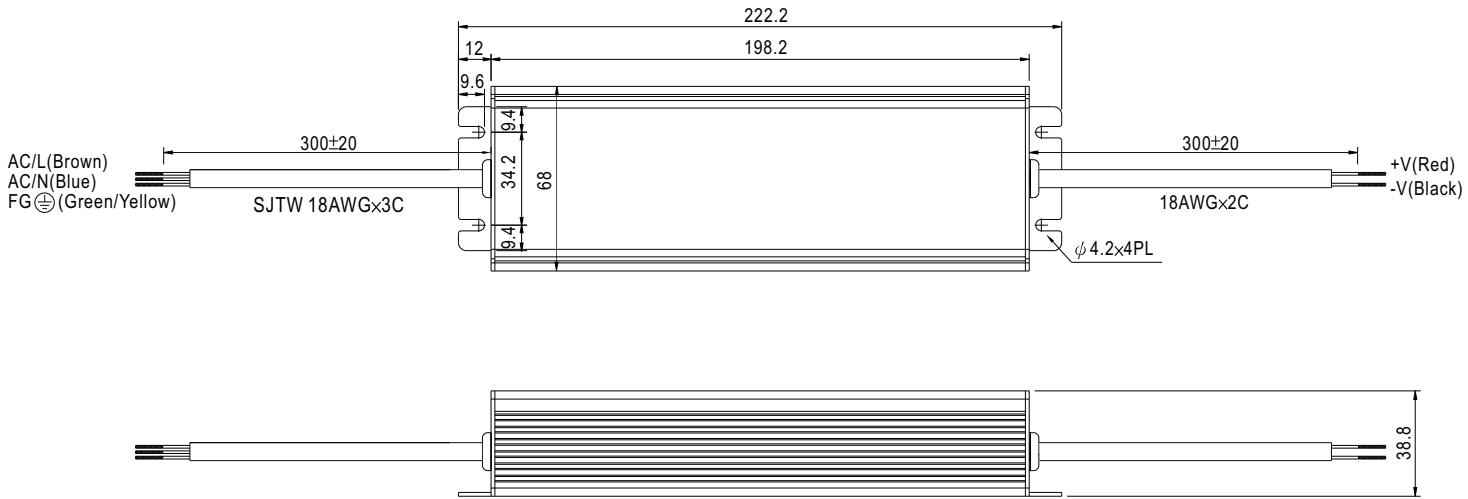


SPECIFICATION

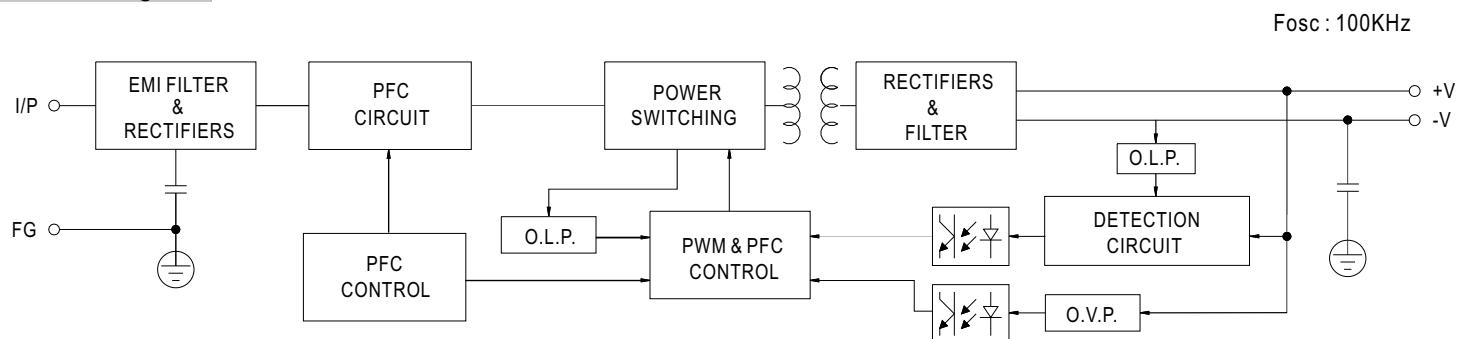
MODEL	CLG-100-12	CLG-100-15	CLG-100-20	CLG-100-24	CLG-100-27	CLG-100-36	CLG-100-48
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V
	CONSTANT CURRENT REGION Note.7	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 27V	27 ~ 36V
	RATED CURRENT Note.5	5A	5A	4.8A	4A	3.55A	2.65A
	RATED POWER Note.5	60W	75W	96W	96W	95.85W	95.4W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	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%
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
INPUT	SETUP, RISE TIME	1200ms, 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					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF>0.95/230VAC PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load					
	EFFICIENCY (Typ.)	84.5%	86.5%	90%	90%	90%	89%
	AC CURRENT	12V:0.8A/115VAC	0.4A/230VAC	15V:0.9A/115VAC	0.45A/230VAC	20V ~ 48V:1.1A/115VAC	0.55A/230VAC
	INRUSH CURRENT(max.)	COLD START 40A/230VAC					
PROTECTION	LEAKAGE CURRENT	<0.75mA / 240VAC					
	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					
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	29 ~ 36V	39 ~ 48V
ENVIRONMENT	PROTECTION type	: Shut down and latch off o/p voltage, re-power on to recover					
	OVER TEMPERATURE	90°C ±10°C (RTH2)					
	PROTECTION type	: Shut down o/p voltage, re-power on to recover					
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
SAFETY & EMC	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	UL879, UL8750, UL1310 Class 2, UL60950-1, TUV EN60950-1, EN61347-1, EN61347-2-13 independent CAN/CSA C22.2 No. 223-M91(except for 48V), IP67 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC					
OTHERS	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥75% load) ; EN61000-3-3					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A					
	MTBF	301Khrs min. MIL-HDBK-217F (25°C)					
NOTE	DIMENSION	222.2*68*38.8mm (L*W*H)					
	PACKING	1.0Kg; 12pcs/13Kg/0.49CUFT					
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating 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. 6. 3 years warranty is guaranteed for operating ambient temperature no higher than 68°C. 7. 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. 8. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 9. 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.							

Mechanical Specification

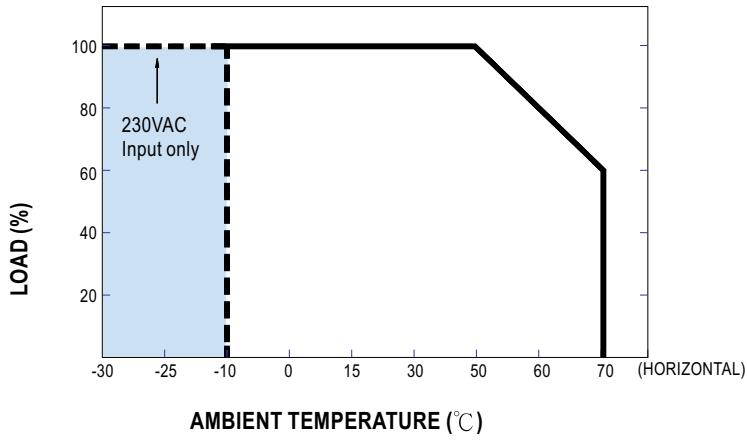
Case No. 954A Unit:mm



Block Diagram



Derating Curve



※-30°C start up possible for 230VAC input

Static Characteristics

