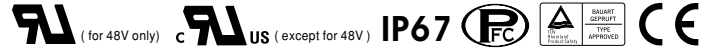




■ Features :

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage/Over temperature
- 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
- 3 years warranty (Note.7)

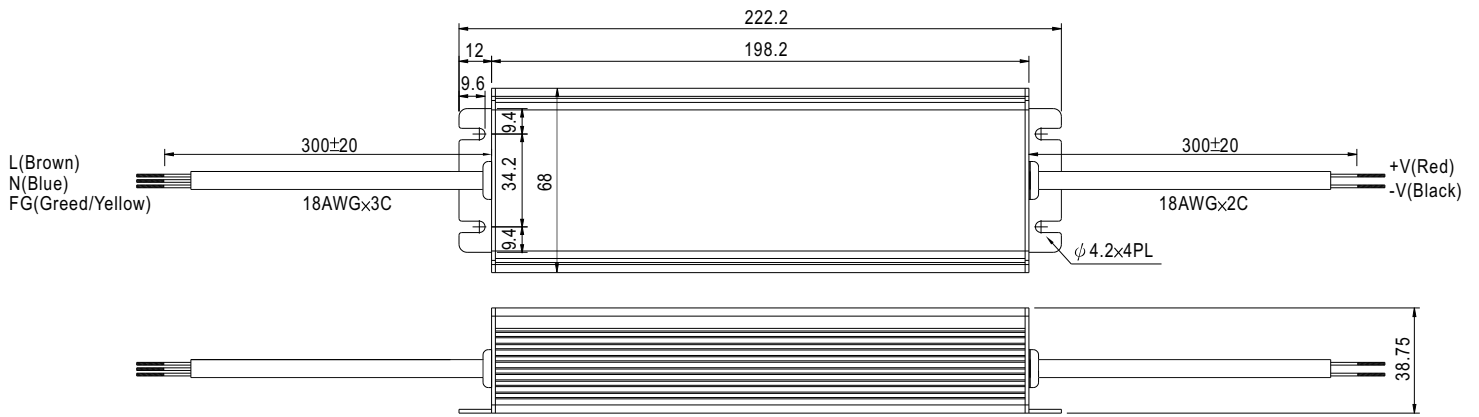


SPECIFICATION

| 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 | 48V |
| | RATED CURRENT <small>Note.6</small> | 5A | 5A | 4.8A | 4A | 3.55A | 2.65A | 2A |
| | CURRENT RANGE <small>Note.6</small> | 0 ~ 5A | 0 ~ 5A | 0 ~ 4.8A | 0 ~ 4A | 0 ~ 3.55A | 0 ~ 2.65A | 0 ~ 2A |
| | RATED POWER <small>Note.6</small> | 60W | 75W | 96W | 96W | 95.85W | 95.4W | 96W |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 150mVp-p | 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 <small>Note.3</small> | ±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 | 1200ms, 80ms / 230VAC | | 1200ms, 80ms / 115VAC at full load | | | | | |
| HOLD TIME (Typ.) | 60ms / 230VAC | | 30ms / 115VAC at full load | | | | | |
| INPUT | VOLTAGE RANGE <small>Note.5</small> | 90 ~ 264VAC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | |
| | POWER FACTOR | PF>0.95/230VAC | | PF>0.98/115VAC at full load | | | | |
| | EFFICIENCY (Typ.) | 83% | 85% | 87% | 87% | 87% | 87% | 87% |
| | 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 | | | | | | |
| | LEAKAGE CURRENT | 0.5mA / 240VAC | | | | | | |
| PROTECTION | OVER CURRENT <small>Note.4</small> | 95 ~ 100% Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | | | |
| | OVER VOLTAGE | 13 ~ 16V | 16.5 ~ 20V | 22 ~ 27V | 27 ~ 34V | 29 ~ 36V | 39 ~ 48V | 52 ~ 64V |
| | OVER TEMPERATURE | 90°C ±10°C (RTH2) Protection type : Shut down o/p voltage, re-power on to recover | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to output load derating curve), -40°C possible | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | UL1310 Class 2, TUV EN60950-1, CAN/CSA C22.2 No. 223-M91(except for 48V), IP67 Approved | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4.25KVDC | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms/500VDC | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | | | | |
| OTHERS | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A | | | | | | |
| | MTBF | 301Khrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 222*68*39mm (L*W*H) | | | | | | |
| | PACKING | 1.0Kg; 12pcs/13Kg/0.49CUFT | | | | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Please refer to OLP characteristics.</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>6. 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.</p> <p>7. 3 years warranty is guaranteed for operating ambient temperature no higher than 68°C.</p> | | | | | | | |

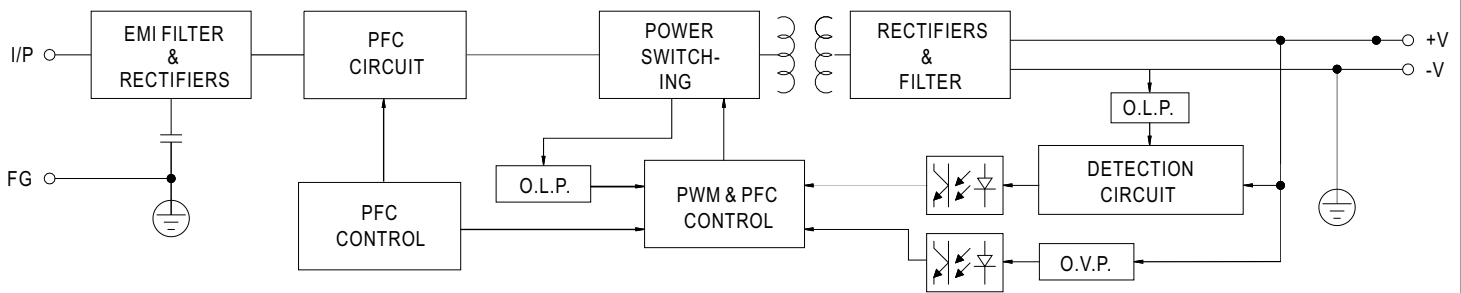
Mechanical Specification

Case No. 954A Unit:mm

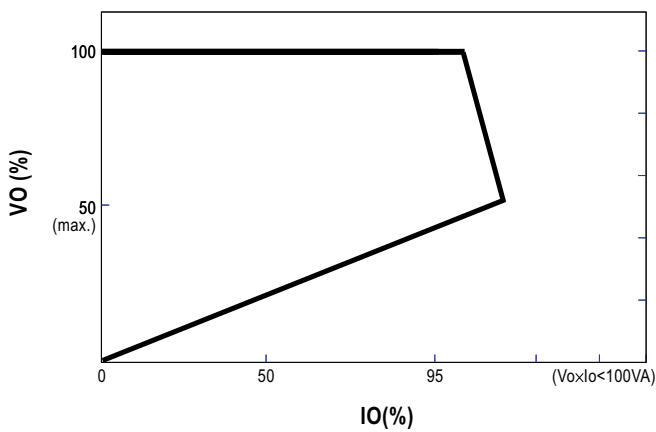


Block Diagram

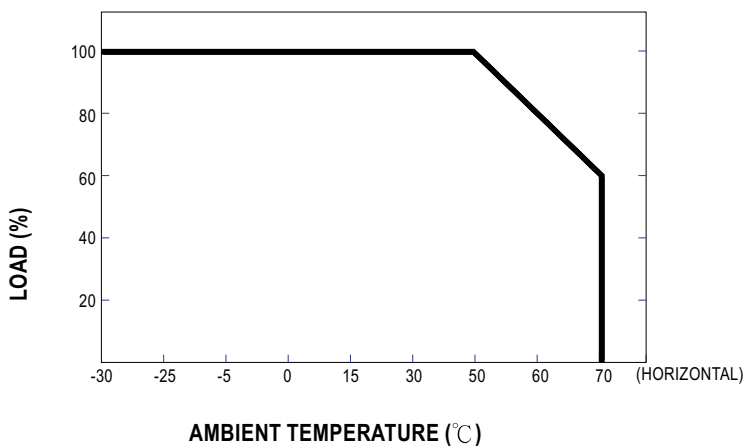
Fosc : 100KHz



OLP Characteristics



Derating Curve



Static Characteristics

