


Features :

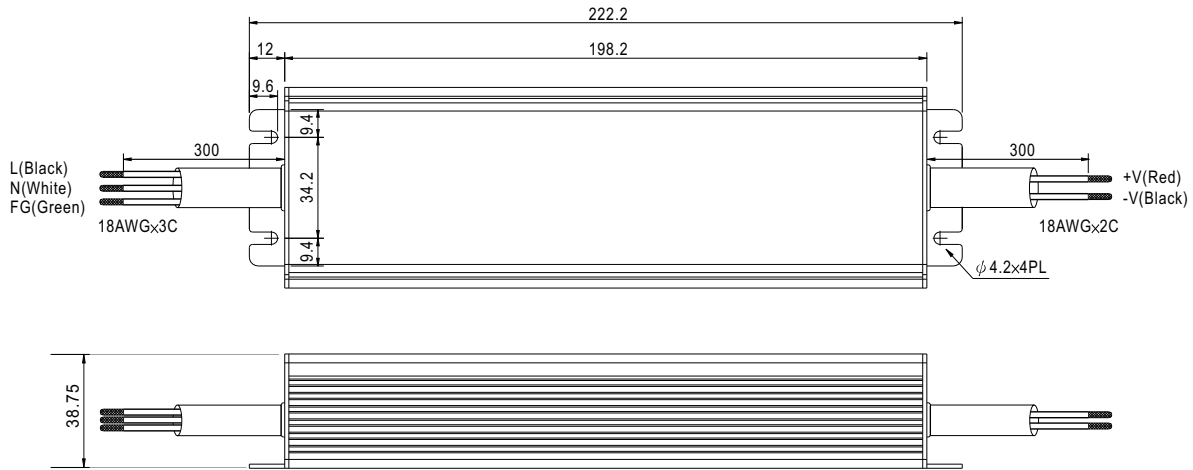
- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Built-in active PFC function
- IP67 design for indoor or outdoor installations
- UL1310, Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- High reliability lighten
- Suitable for LED lighter and moving sign applications
- 3 years warranty at Ta=68°C


SPECIFICATION

MODEL		CL-100-12	CL-100-15	CL-100-20	CL-100-24	CL-100-27	CL-100-36	CL-100-48
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V
	RATED CURRENT	5A	5A	4.8A	4A	3.55A	2.65A	2A
	CURRENT RANGE	0 ~ 5A	0 ~ 5A	0 ~ 4.8A	0 ~ 4A	0 ~ 3.55A	0 ~ 2.65A	0 ~ 2A
	RATED POWER	60W	75W	96W	96W	95.85W	95.4W	96W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	0% ~ -15% fixed output by customer choose						
	CURRENT ADJ. RANGE	3% ~ -25% fixed output by customer choose						
	VOLTAGE TOLERANCE Note.3	±5.0%						
	LINE REGULATION	±1.0%						
INPUT	LOAD REGULATION	±2.0%						
	SETUP, RISE, HOLD TIME	1000ms, 80ms, 60ms / 230Vac 1000ms, 80ms, 16ms / 115Vac at full load						
	VOLTAGE RANGE	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						
PROTECTION	LEAKAGE CURRENT	0.5mA / 240VAC						
	OVER CURRENT Note.4	Max. 110% Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Protection type : Hiccup mode, 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℃ ±10℃ (RTH2) Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to output load derating curve), -40℃ possible						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	Design refer to UL1310, Class 2 & IP67						
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A						
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms/500VDC						
OTHERS	MTBF	301Khrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	222*68*39mm (L*W*H)						
	PACKING	1.0Kg; 12pcs/13Kg/0.49CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Please refer to OLP characteristics. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.							

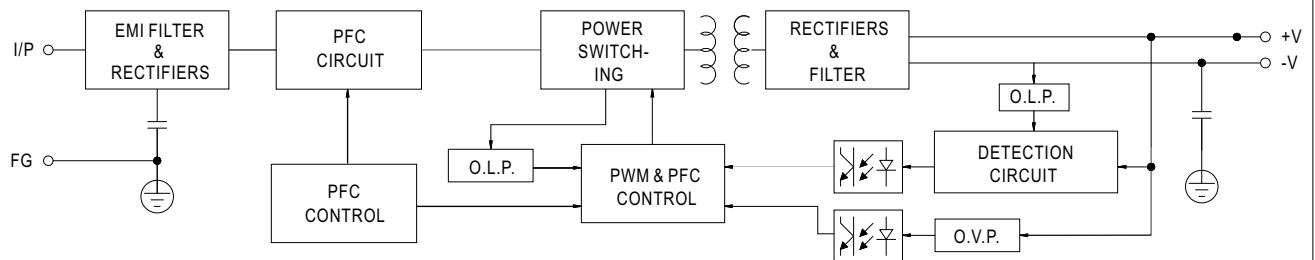
Mechanical Specification

Case Number 954A Unit:mm

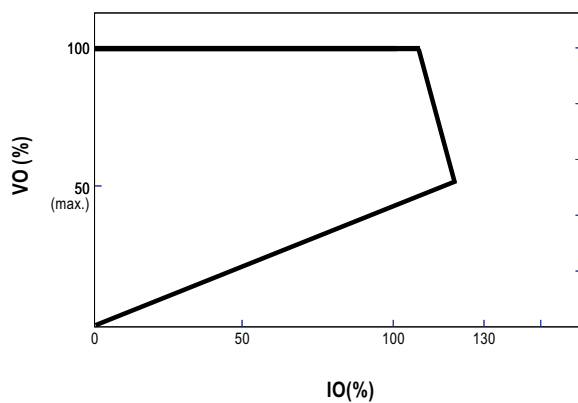


Block Diagram

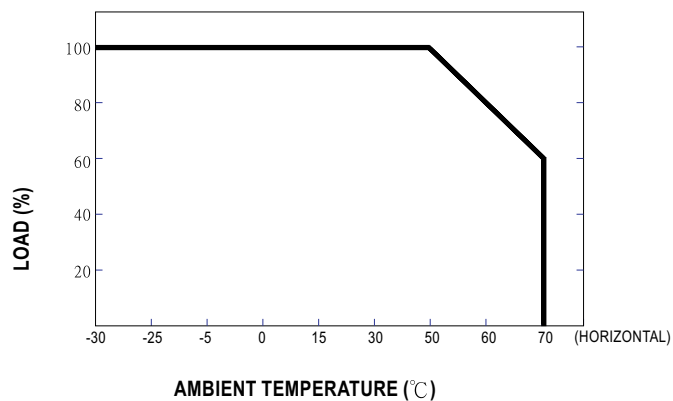
Fosc : 100KHz



OLP Characteristics



■ Derating Curve



■ Static Characteristics

