

Features:

- Universal AC input 90~264VAC
- Built-in active PFC function, high efficiency
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in cooling Fan ON-OFF control
- 1U low profile 40.5mm
- Forced air cooling by built-in DC fan
- Remote control/power good(fail)
- 100% full load burn-in test
- LED indicator for power on
- High reliability
- 3 years warranty

Specification

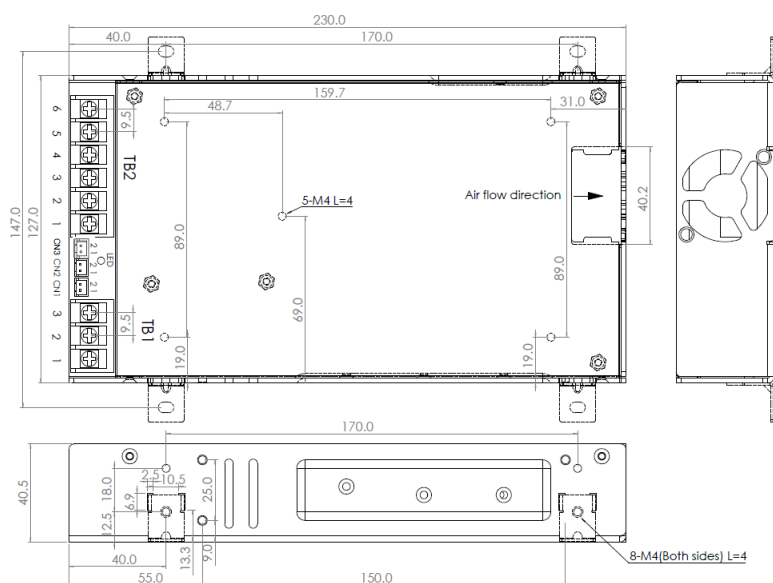
MODEL		LP-750-24OPT
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	31.3A
	CURRENT RANGE	0~31.3A
	RATED POWER	751.2W
	RIPPLE&NOISE (max.) Note2	200mVp-p
	VOLTAGE ADJ. RANGE	20~27V
	VOLTAGE TOLERANCE Note3	±1.0%
	LINE REGULATION Note4	±0.5%
	LOAD REGULATION Note5	±0.5%
	SETUP, RISE TIME	1500ms,50ms/230VAC 3000ms,50ms/115VAC
	HOLD UP TIME(Typ.)	8ms/230VAC 8ms/115VAC
INPUT	VOLTAGE RANGE	90~264VAC
	FREQUENCY RANGE	47~63Hz
	POWER FACTOR(Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load
	EFFICIENCY(Typ.)	93%
	AC CURRENT(Typ.)	9A/115VAC 4A/230VAC
	INRUSH CURRENT(Typ.)	20A/115VAC 40A/230VAC (cold start)
	LEAKAGE CURRENT	<2mA/240VAC
PROTECTION	OVER LOAD	110%~140% rated output power Protection type: >0.2s, Shutdown, recovers automatically after repower on
	OVER VOLTAGE	27.6~32.4V Protection type: Shutdown, recovers automatically after repower on
	OVER TEMPERATURE	Protection type: Shutdown, recovers automatically after temperature goes down
FUNCTION	FAN ON/OFF CONTROL(Typ.)	RTH2≥50°C FAN ON, ≤40°C FAN OFF
	REMOTE CONTROL(CN1)	Power on: voltage between RC+ and RC- is 0~0.8V; Power off: voltage between RC+ and RC- is 4~10V
	POWER GOOD/FAIL (CN2)	Voltage between PG+ and PG- goes high after power set up; The voltage goes low when Vo below 90% of adj. voltage value. Internal pull-up voltage is 3.6V, internal pull-up resistor is 1KΩ
	voltage adjusted(CN3)	Output voltage can be adjusted by applying additive resistance (0-1KΩ) between RV- (CN3 PIN1) and RV+(CN3 PIN2)
ENVIRONMENT	WORKING TEMP, HUMIDITY	-30~+70°C (Refer to "Derating curve"), 20~90%RH non-condensing
	STORAGE TEMP, HUMIDITY	-40~+85°C, 10~95%RH
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10~500Hz, 2G 10min./1 cycle, each along X、Y、Z axes
SAFETY	SAFETY STANDARDS	Refer to GB4943.1-2011, EN62368-1
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100MΩ/500Vdc/25°C/70%RH
	EMI	Compliance to GB17625.1-2012, GB/T9254-2008,EN55032 CLASS B,EN61000-3-2, EN61000-3-3
	EMS	Compliance to EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
OTHERS	MTBF	≥200Khrs MIL-HDBK-217F(25°C)
	DIMENSION	230*127*40.5mm(L*W*H)
	PACKING	1.3Kg; 9pcs/ 12.7Kg/0.68CUFT

NOTE

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. Line regulation is measured from low line and high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m.
7. Derating may be needed under low input voltage. Please check the derating curve and static characteristics for more details.
8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unite on a 300mm*300mm metal plate with 3mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.

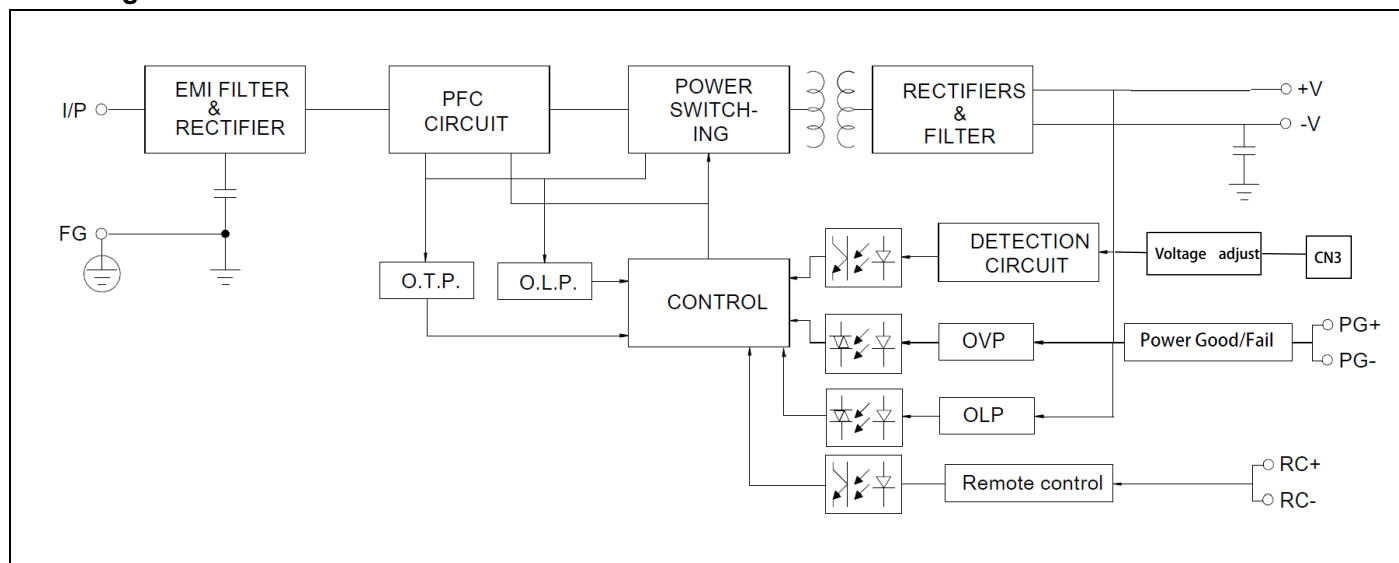
Mechanical specification

Unit: mm

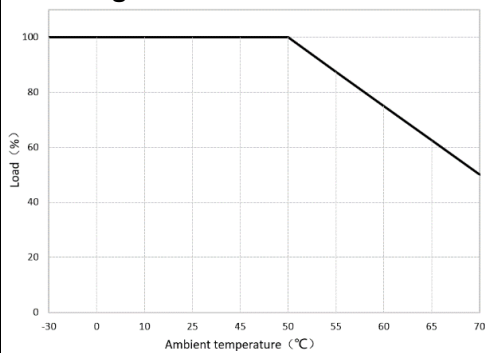


	Terminal	Pin No.	Assignment
TB1		1	AC/L
		2	AC/N
		3	FG
TB2		1~3	DC output -V
		4~6	DC output +V
CN1	CJT A2501WV-2P	1	RC-
		2	RC+
CN2	CJT A2501WV-2P	1	PG-
		2	PG+
CN3	CJT A2501WV-2P	1	RV-
		2	RV+
SVR1		Output voltage adjust	

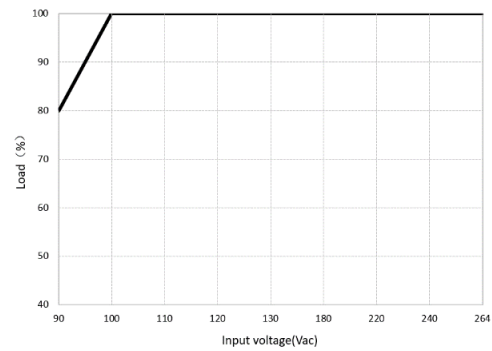
Block Diagram



Derating curve

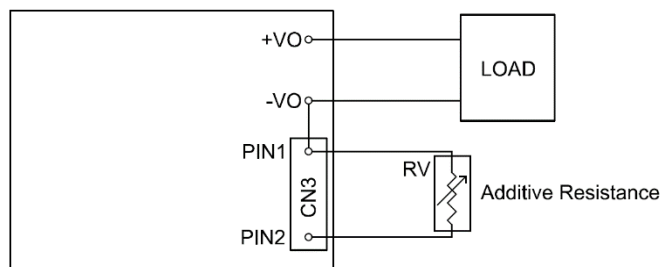


Static characteristics



Output voltage adjusted function

1, Output voltage can be adjusted by applying additive resistance (0-1K Ω)



Rv vs Vo

