

VT-AC-DC48

648W Single Output Power Supply



FEATURES:

- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 4.9w/in³
- Built-in remote sense function
- UL approved
- Low cost

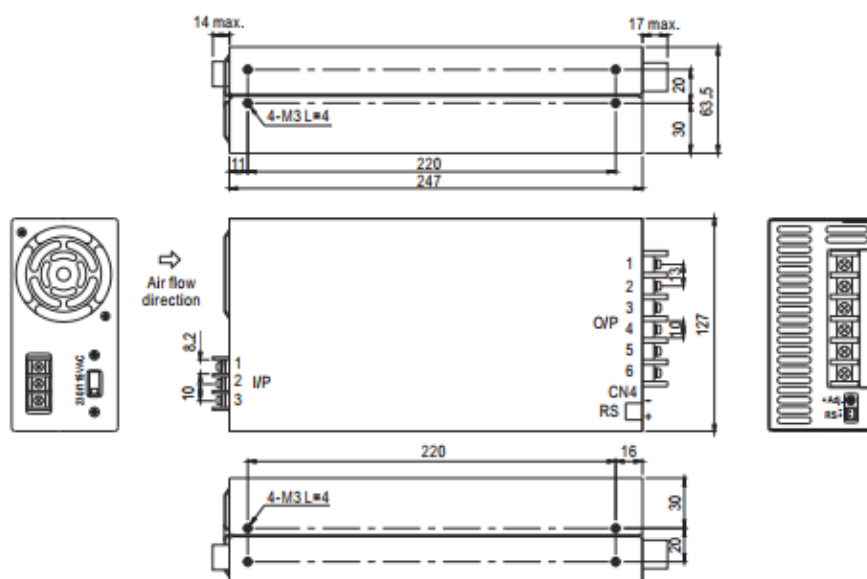
SPECIFICATION:

MODEL		VT-AC-DC48
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	13.5A
	CURRENT RANGE	0 ~ 13.5A
	RATED POWER	648W
	RIPPLE & NOISE (max.) Note.2	200mVp-p
	VOLTAGE ADJ. RANGE	43 ~ 56V
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±0.5%
	SETUP, RISE TIME	1000ms, 50ms/230VAC 1000ms, 50ms/115VAC at full load

	HOLD UP TIME (Typ.)	20ms/230VAC 16ms/115VAC at full load
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch 254 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	88%
	AC CURRENT (Typ.)	12A/115VAC 7.5A/230VAC
	INRUSH CURRENT (Typ.)	30A/115VAC 60A/230VAC
	LEAKAGE CURRENT	<2.0mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 125% rated output power
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER VOLTAGE	57.6 ~ 67.2V
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	85 °C ±5 °C (TSW1) detect on heatsink of power transistor
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-20 ~ +60 °C (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50 °C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
OTHERS	MTBF	197K hrs min. MIL-HDBK-217F (25 °C)
	DIMENSION	247*127*63.5mm (L*W*H)
	PACKING	2.1Kg; 6pcs/13.4Kg/1.03CUFT
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.	

■ Mechanical Specification

Case No. 926A Unit:mm



AC input terminal :

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG $\oplus$

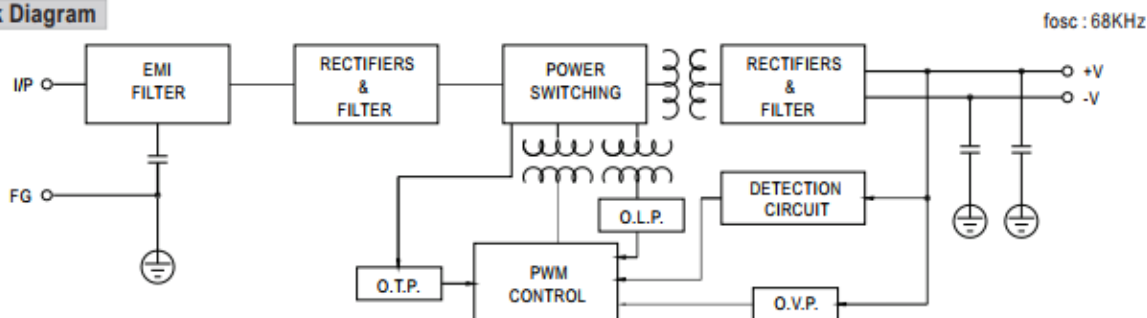
DC Output terminal :

Pin No.	Assignment
1~3	+V
4~6	-V

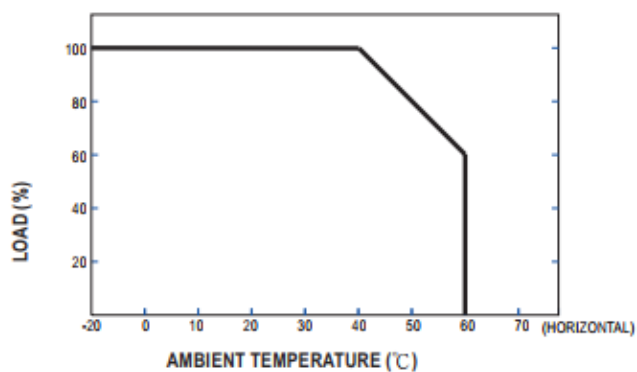
RS Connector (CN4) : JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+S	JST XHP or equivalent	JST SXH-001T or equivalent
2	-S		

■ Block Diagram



■ Derating Curve



■ Static Characteristics

