



## 50W Single Output Switching Power Supply

# BT-600



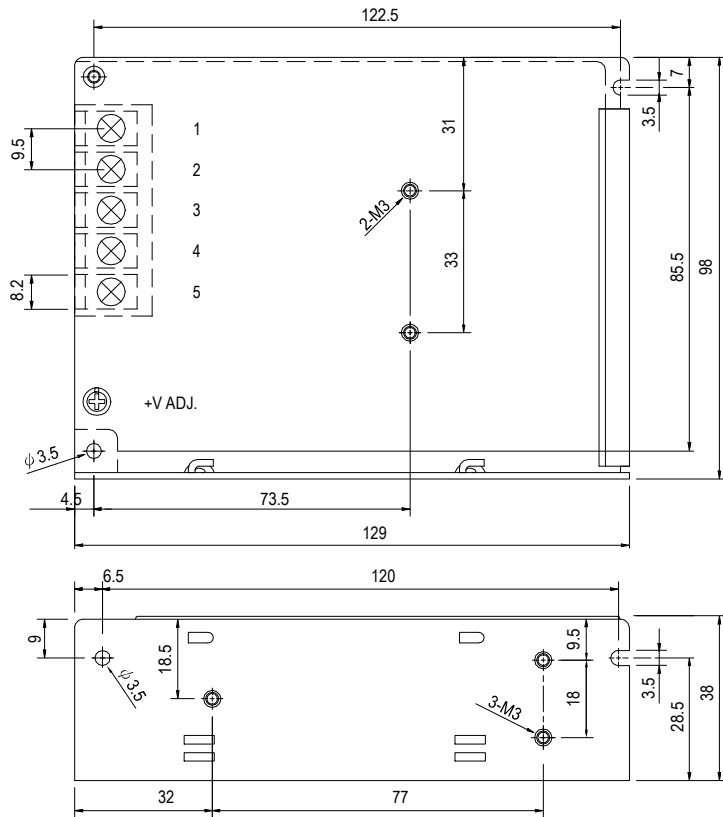
- Features :
- Universal AC input/Full range
  - Protections: Short circuit/Over load/Over voltage
  - Cooling by free air convection
  - 100% full load burn-in test
  - 2 years warranty

### SPECIFICATION

BT-600-50-48	BT-600-50-24	BT-600-50-15	BT-600-50-12	BT-600-50-5	MODEL	
48V	24V	15V	12V	5V	DC VOLTAGE	
1.1A	2.2A	3.4A	4.2A	10A	RATED CURRENT	
0~1.1A	0~2.2A	0~3.4A	0~4.2A	0~10A	CURRENT RANGE	
52.8W	52.8W	51W	50.4W	50W	RATED POWER	
240mVp-p	200mVp-p	150mVp-p	120mVp-p	80mVp-p	RIPPLE & NOISE (max.)	
43.2 ~ 52.8V	21.6 ~ 26.4V	13.5 ~ 16.5V	10.8 ~ 13.2V	4.75 ~ 5.5V	VOLTAGE ADJ. RANGE	OUTPUT
1.0%	1.0%	1.0%	1.0%	2.0%	VOLTAGE TOLERANCE	
0.5%	0.5%	0.5%	0.5%	0.5%	LINE REGULATION	
0.5%	0.5%	0.5%	0.5%	0.5%	LOAD REGULATION	
500ms, 30ms/230VAC      1200ms, 30ms/115VAC at full load					SETUP, RISE TIME	
50ms/230VAC      10ms/115VAC at full load					HOLD TIME (Typ.)	
85 ~ 264VAC      120 ~ 370VDC					VOLTAGE RANGE	
47 ~ 63Hz					FREQUENCY RANGE	
87%	86%	83%	82%	79%	EFFICIENCY(Typ.)	INPUT
1.1A/115VAC      0.65A/230VAC					AC CURRENT (Typ.)	
COLD START 45A					INRUSH CURRENT (Typ.)	
<2mA / 240VAC					LEAKAGE CURRENT	
110 ~ 150% rated output power					OVER LOAD	
Protection type : Hiccup mode, recovers automatically after fault condition is removed					OVER VOLTAGE	PROTECTION
55.2 ~ 64.8V	27.6 ~ 32.4V	17.25 ~ 20.25	13.8 ~ 16.2V	5.75 ~ 6.75V		
Protection type : Shut down o/p voltage, re-power on to recover						
-20 ~ +60 (Refer to output load derating curve)					WORKING TEMP.	
20 ~ 90% RH non-condensing					WORKING HUMIDITY	
-40 ~ +85 , 10 ~ 95% RH					STORAGE TEMP.,	ENVIRONMENT
0.03%/ (0 ~ 45 )					TEMP. COEFFICIENT	
10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					VIBRATION	
UL60950-1 Approved, CB Approved by TUV(Design refer to IEC 60950-1)					SAFETY STANDARDS	
I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					WITHSTAND VOLTAGE	
I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC					ISOLATION	SAFETY &
Compliance to EN55022 (CISPR22) Class B					EMI CONDUCTION &	
Compliance to EN61000-3-2,-3					HARMONIC CURRENT	EMC (Note 6)
Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, EN61000-6-1 Light industry level, criteria A					EMS IMMUNITY	
374.2K hrs min. MIL-HDBK-217F (25 )					MTBF	
129*98*38mm (L*W*H)					DIMENSION	OTHERS
0.41Kg; 30pcs/13.3Kg/0.86CUFT					PACKING	
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. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets					NOTE	

Case No. 903 Unit:mm

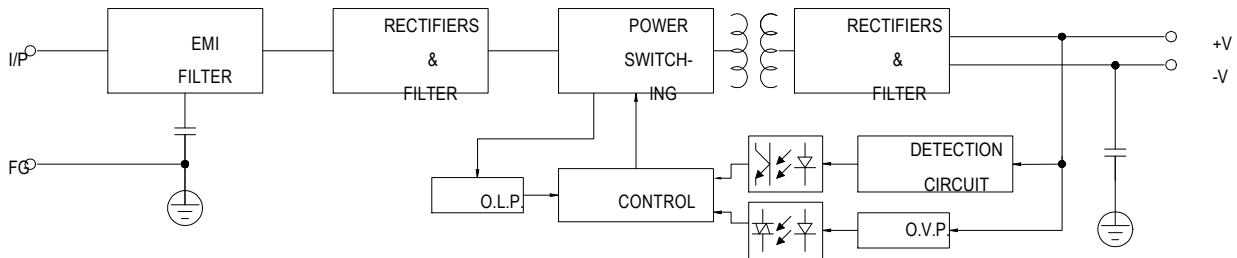
**Mechanical**



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG		

**Block**



Output Derating VS Input Voltage

**Output**

