

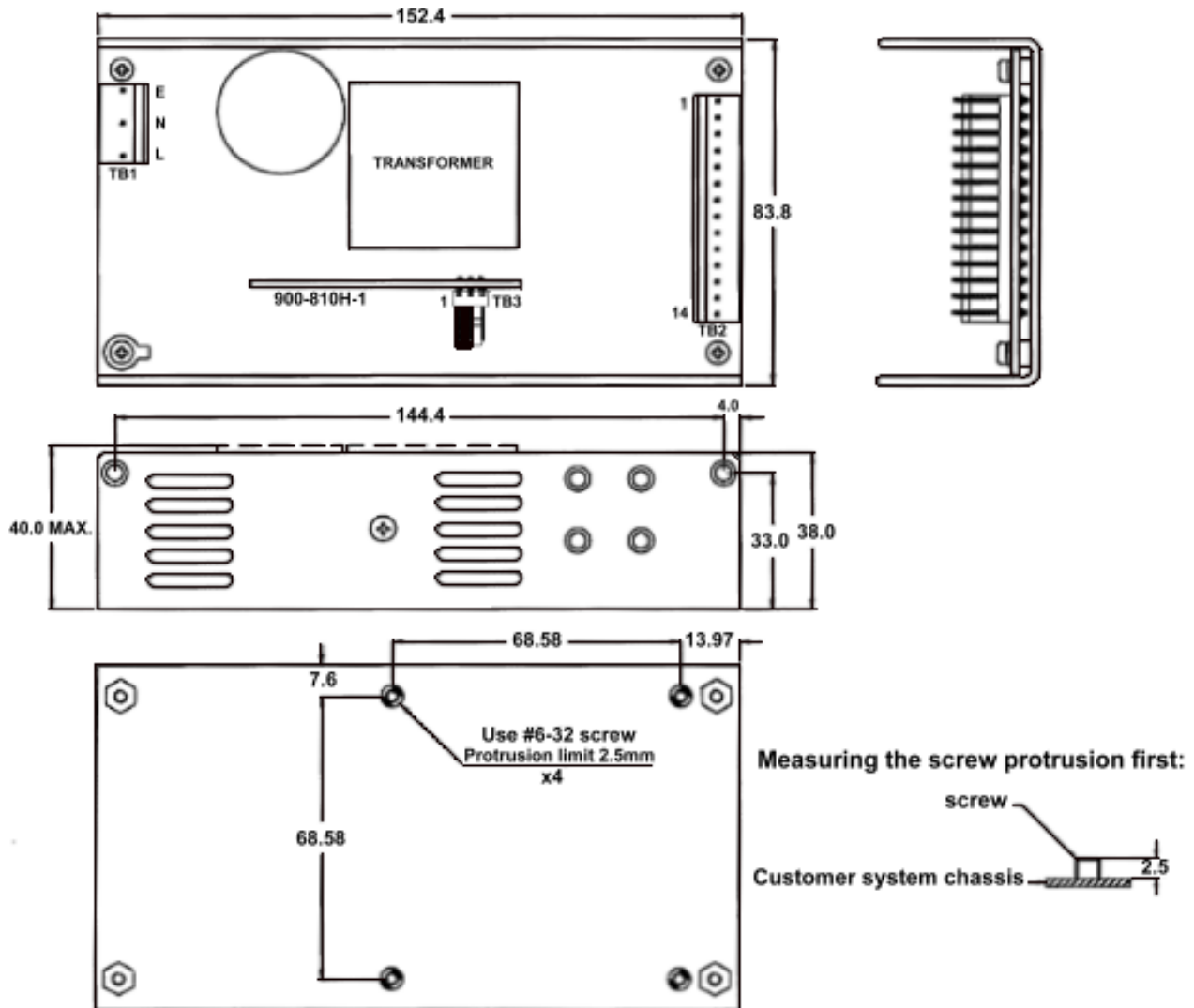

**Key Features:**

- 120W with 38 CFM forced air cooling, 85W convection cooling
- Universal input and 3.3V/5V/12V/-12V DC outputs, 5V Stand-by
- Open frame, thermally efficient U-channel design
- Rated at 50 °C
- Power Good/Power Fail and Remote On/Off
- 100% 50 °C burn-in
- MTBF>180,000 hr. Mil-217F.
- Designed for Industrial Grade Fan-less Applications.
- Rohs compliant
- 2 year warranty

**Description:**

The OFP120-50P is an AC/DC open frame ATX switching power supply that can be configured as either 85 watts convection cooling or 120 watts forced air-cooling AC/DC switching power supply.

Input Specification					
Input Type	AC				
Input Voltage	90-264 VAC continuous input range				
Input Frequency	47-63 Hz				
Input Current	3A @ 115VAC, 1.5A @ 230VAC				
Inrush Current	30A @ 115VAC, 60A @ 230VAC				
Output Specification					
Outputs	+5V	+3.3V	+12V	-12V	+5Vsb
Minimum Output Current	1A	0A	0A	0A	0A
Rated Output Current	8A	8A	2.5A	0.5A	0.75A
Maximum Output Current	14A	12A	6A	1A	-
Line Regulation	±1%	±1%	±1%	±1%	±1%
Load Regulation	±2%	5%	7% ~ -3%	8% ~ -3%	-
Ripple and Noise (peak to peak)	50 mV	50 mV	120 mV	200 mV	120 mV
Efficiency	> 70%				
MTBF	185,253 hours at 50 °C				
Interface Signals and Internal Protection					
Power On/Off	The power supply will be turned on when the power On/Off ping is connected to secondary GND.				
Power Good Signal	N/A				
Power Fail Signal	N/A				
Overload Protection	Fully protected against output overload and short circuit. Automatic recovery upon of overload condition.				
Safety Approvals, EMI and EMS specification					
Safety	UL 1950, CSA 22.2 No. 234,VDE EN 60950				
Radiation/Conduction	FCC docket 20780 curve "B", EN55022 "B"				
Environment Specification					
Operating Temperature	0~50 °C				
Storage Temperature	-40~70 °C				
Altitude (max)	up to 10,000 ft				
Dimension					
Width x Length x Height	3.3 x 6.0 x 1.5 (inch)				

**1.0 MECHANICAL SPECIFICATION**

**1.1 Dimensions**

Dimensions are shown in mm as above. Tolerance specified is +/-0.4mm.

**1.2 Connectors**

TB1 --- AC input : Molex 5273-05A withdraw 2 pins or equivalent.  
 TB2 --- DC output : Molex 5273-14A or equivalent.  
 TB3 --- DC output : Molex 5045-03A

**1.3 DC output pin assignment**

TB2	Pin	1.	+5V	6.	GND	11.	3.3V
		2.	+5V	7.	GND	12.	3.3V
		3.	+5V	8.	GND	13.	3.3V
		4.	GND	9.	+12V	14.	-12V
		5.	GND	10.	+12V		
TB3	Pin	1.	PS On/OFF	2.	GND	3.	5Vsb