

500W Medical Single Output

With Active PFC



Dimension: 203.2(L) X 118.5(W) X 38.5(H)mm (8" x 4.66" x 1.51")

Open Frame Type Switching Power Supply

ELECTRICAL SPECIFICATIONS

Input

- Input range : 90-264VAC
- Frequency : 47 - 63Hz
- Power factor : >0.9 @115VAC / 230VAC
- Inrush current : <17.5A peak @ 115VAC; <35A peak @ 230VAC cold start @25° deg C
- Input current : 6A max. @ 115VAC
- Efficiency : 83% @ 115VAC, 86% @ 230VAC typical at full load
- Leakage current : < 300uA @ 264VAC
- Isolation : Input to Output 5656 VDC, Input to Ground 2121 VDC, Output to Ground 707 VDC

Output

- Maximum power : 500W force air 15CFM cooling
- Hold-up time :20ms at 360 watt load and 115VAC input
- Short circuit protection : Auto recovery
- Over load protection : 110% to 150% maximum rating, Auto recovery
- Over voltage protection : 110% to 130% above nominal output, Latching type. AC Recycle
- Current share option (Single wire) : and up to 4 units can be paralleled within 10% accuracy at full load.
- Remote inhibit function
- 5V / 1A Standby output
- 12V / 1A Output for FAN

SAFETY STANDARDS

- UL UL60601-1
- CSA CSA-C22.2 NO.601.1-M9
- TUV EN60601-1
- CB IEC 60601-1

EMI STANDARDS

- EN60601-1-2
- FCC Part 18 Class B
- EN55011 Class B
- CE

ENVIRONMENTAL

- Operating temperature: 0°C to +50°C ambient derate each output at 2.5% per degree from +50°C to +70°C
- Humidity: Non-condensing 5% to 95%
- Temperature coefficient: ±0.04% per degree C
- MTBF demonstrated:>100,000 hours at full load and 25° deg C ambient temperature

DC OUTPUT & FEATURES

Model No. (*1)	Output Voltage	Minimum Load	Maximum Load Convection Cooling (*2)	Maximum Load (*3)	Output Watts	O/P Regulation (*4)	Ripple & Noise(Vp-p) (*5)
500B-1Y120-X (D)	+12V	0A	30A	41.67A	500W	5%	120mV
500B-1Y240-X (D)	+24V	0A	15A	20.84A	500W	5%	240mV
500B-1Y300-X (D)	+30V	0A	12A	16.67A	500W	5%	300mV
500B-1Y360-X (D)	+36V	0A	10A	13.89A	500W	5%	360mV
500B-1Y480-X (D)	+48V	0A	7.5A	10.42A	500W	5%	480mV
500B-1Y540-X (D)	+54V	0A	6.67A	9.26A	500W	5%	540mV
500B-1Y570-X (D)	+57V	0A	6.32A	8.78A	500W	5%	570mV

Note:

1. Option: X=U, U-Channel, X=S, End Fan, X=T, Fan on top; D=Current share
2. Option U, max output 360W @ +40°C ambient max.
3. Option U: max output 500W force air 30CFM cooling, Option S and T: max output 500W, +50°C ambient max.
4. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
5. Peak-to-peak with 20MHz bandwidth with a tantalum 10uF in parallel with a 0.1uF ceramic capacitor.

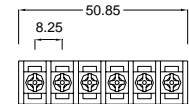
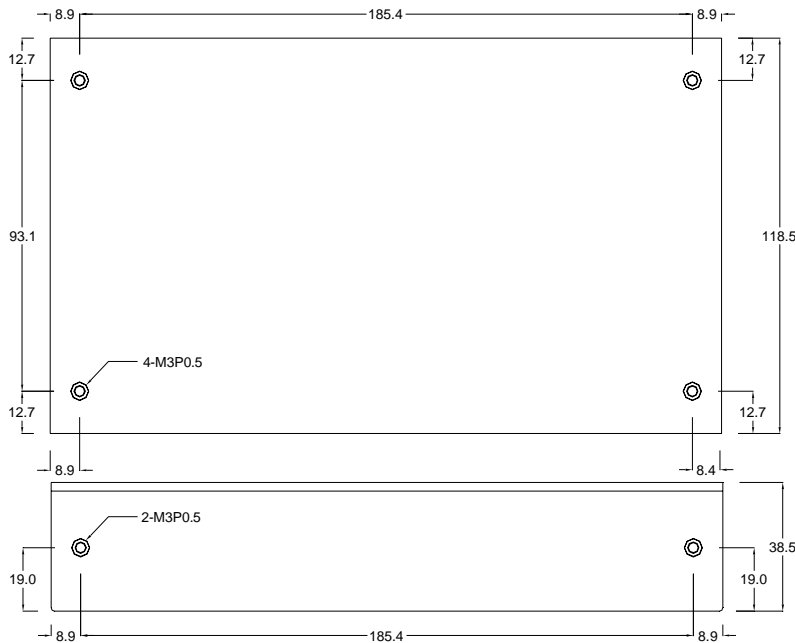
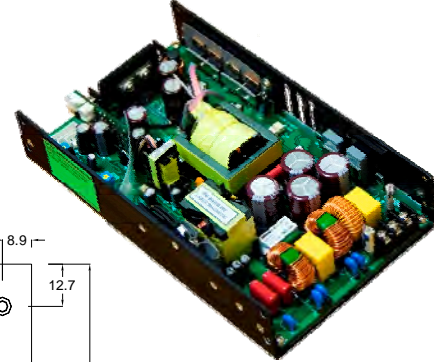
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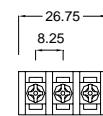
With Active PFC

MECHANICAL SPECIFICATION

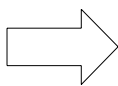
Option : U, U-Channel



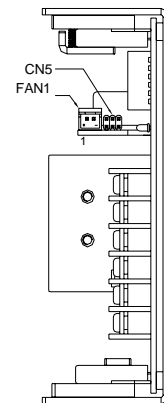
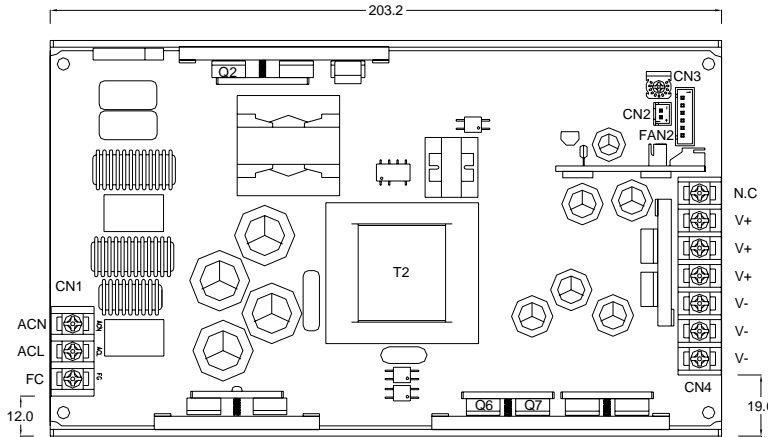
CN4



CN1

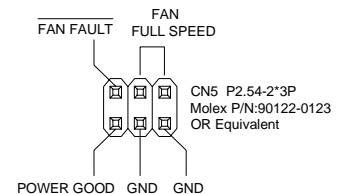


Recommended direction for force airflow



CN3 P2.5-6P (OPTION) Molex P/N:48152-0610 OR Equivalent	PIN1	Current Share
	PIN2	Inhibit
	PIN3	GND
	PIN4	5Vsb
	PIN5	-Sensor
	PIN6	+Sensor

CN2 P2.5-2P Molex P/N:48152-0210 OR Equivalent	PIN1	5Vsb
	PIN2	GND
FAN1 P2.5-2P Molex P/N:48153-0210 OR Equivalent	PIN1	12V FAN +
	PIN2	12V FAN -
FAN2 P2.5-2P (With speed control) Molex P/N:48152-0210 OR Equivalent	PIN1	FAN +
	PIN2	FAN -





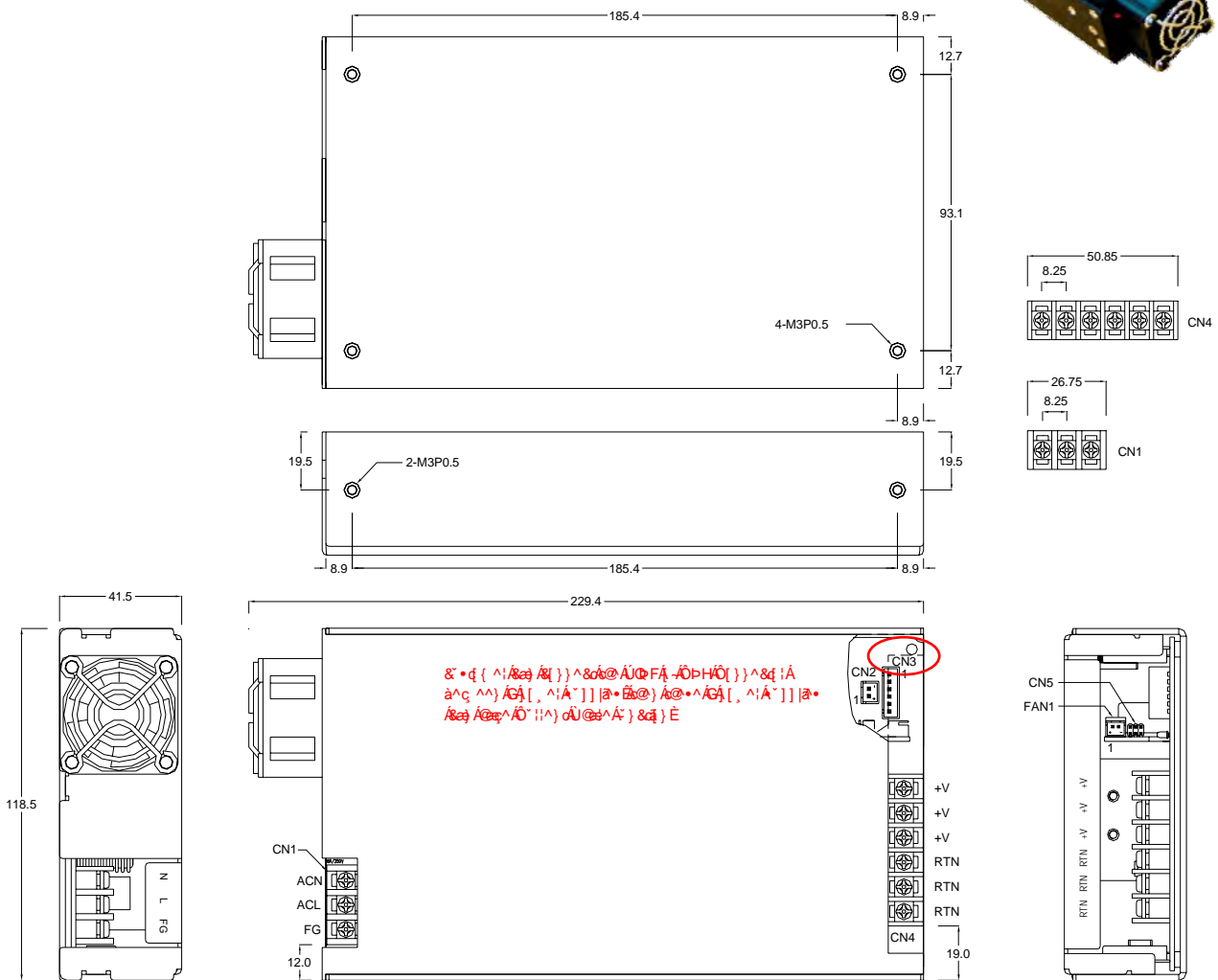
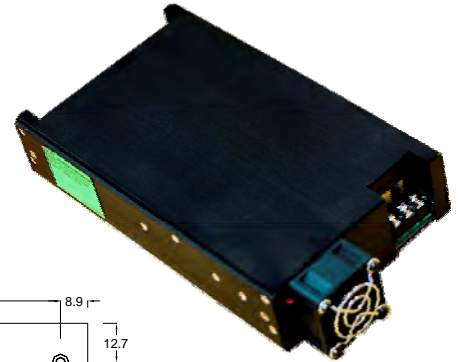
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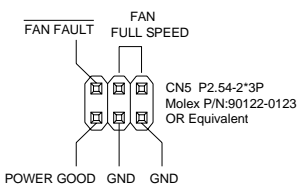
MECHANICAL SPECIFICATION

Option : S, End Fan



<p>CN3 P2.5-6P (OPTION) Molex P/N:48152-0610 OR Equivalent</p>	PIN1	Current Share
	PIN2	Inhibit
	PIN3	GND
	PIN4	5Vsb
	PIN5	-Sensor
	PIN6	+Sensor

CN2 P2.5-2P Molex P/N:48152-0210 OR Equivalent	PIN1	5Vsb
	PIN2	GND
FAN1 P2.5-2P Molex P/N:48153-0210 OR Equivalent	PIN1	12V FAN +
	PIN2	12V FAN -



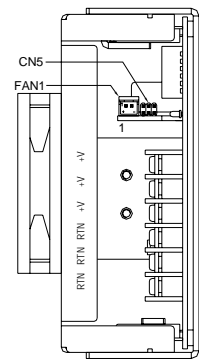
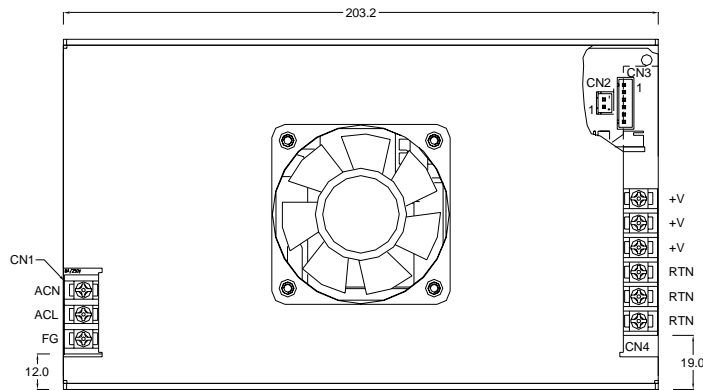
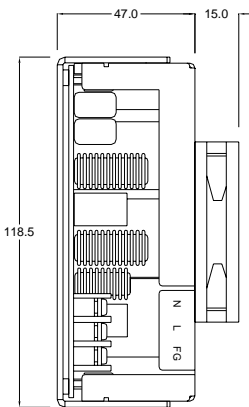
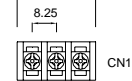
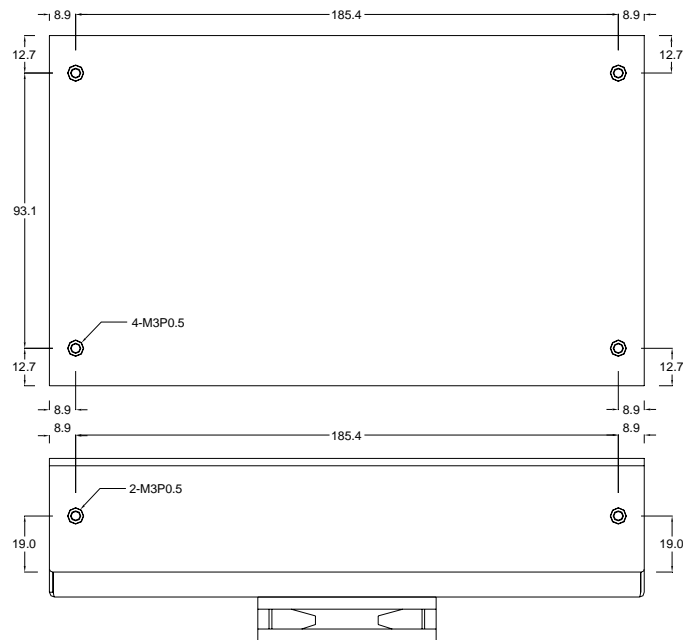
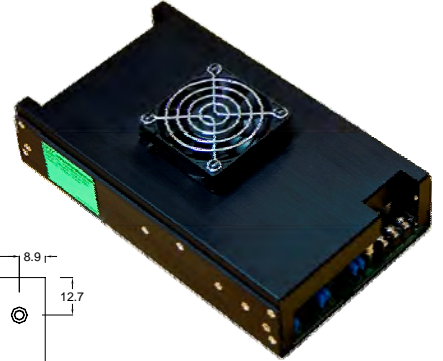
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MECHANICAL SPECIFICATION

Option : T, Fan on top



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	PIN2	Inhibit
	PIN3	GND
	PIN4	5Vsb
	PIN5	-Sensor
	PIN6	+Sensor

CN2 P2.5-2P Molex P/N:48152-0210 OR Equivalent	PIN1	5Vsb
	PIN2	GND
FAN1 P2.5-2P Molex P/N:48153-0210 OR Equivalent	PIN1	12V FAN +
	PIN2	12V FAN -

CN5 P2.54-2*3P Molex P/N:90122-0123 OR Equivalent	PIN1	12V FAN +
	PIN2	12V FAN -

