



## JD RSP-2000 SERIES 2000 WATT SINGLE OUTPUT SWITCHING POWER SUPPLIES 11.61" x 5" x 1.61" POWER FACTOR CORRECTED

### APPLICATIONS

The JD RSP-2000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 2000 watts. Rugged construction and superior quality make this power supply ideal for harsh environment applications. Available in standard, modified or fully custom configurations, for industrial, commercial, COTS ruggedized and Military applications.

### STANDARD FEATURES

- Universal AC Input (100-240 VAC)
- Active PFC for EN61000-3-2 Class D Compliance
- Built In DC Fan for Cooling
- Current Share Function
- AC & DC Good Signals
- Remote on/off & Remote Sense Functions
- 5V / 0.5A Auxiliary Output
- 12V / 0.5A Auxiliary Output

### AVAILABLE OPTIONS

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack / Panel Mount
- Ruggedized for shock & vibration
- 400 Hz Operation
- Conformal Coated

### SAFETY AND EMISSIONS

- Designed to meet UL/cUL60950-1
- Designed to meet TUV EN60950-1
- Designed to meet CB Report (IEC 60950-1)
- Designed to meet CE Mark (LVD)
- Designed to meet EN55022 Class B (CISPR 22 B)



### SPECIFICATIONS

#### INPUT SPECIFICATIONS:

Input: Universal AC Input Range 90-264VAC/127-370VDC  
Input Frequency: 47-63Hz (400 Hz Optional)  
Inrush Current: 25A max at 115VAC/50A at 230 VAC (cold start)  
Input Current: 16A max @ 115VAC 10A max @ 230VAC  
Efficiency: 83-90% typical (depending on output model)  
Hold-up time: 16ms at full load (minimum)  
Leakage Current: <2.0mA maximum @ 240 VAC  
Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

#### OUTPUT SPECIFICATIONS

Adjustment Range:  $\pm 10\%$  (minimum)  
Minimum Load: none  
Regulation: Line  $\pm 0.5\%$  Load  $\pm 0.5\%$   
Ripple/Noise: 150mV peak to peak maximum (20 MHz)  
Output voltage adj:  $\pm 10\%$  minimum  
Overcurrent Protection: 105-125% automatic recovery Constant Current  
Overvoltage Protection: 115-140% of V1 nominal  
Overtemperature Protection: Heatsink Temp.  $90^{\circ}\text{C} \pm 5^{\circ}\text{C}$  Auto Recovery

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ . Derate to 50% at  $+70^{\circ}\text{C}$   
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  max 95% Relative Humidity  
Cooling: Internal ball bearing DC fan  
Humidity: 20-90% RH non condensing  
Vibration: 10-500Hz, 2G 10min/1cycle for 60 min (3 axes)  
Shock: 20G Peak Acceleration  
weight: Approx: 4 LBS  
Size: 11.61" x 5" x 1.61"

## MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
JD RSP-2000-12	12V	100A
JD RSP-2000-24	24V	80A
JD RSP-2000-28	28V	71A
JD RSP-2000-48	48V	42A

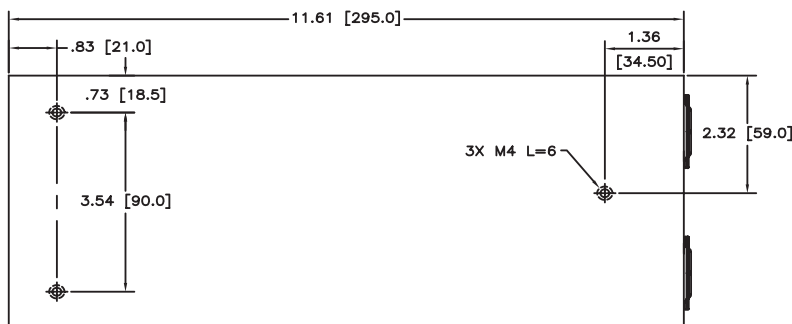
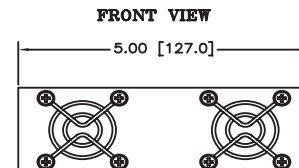
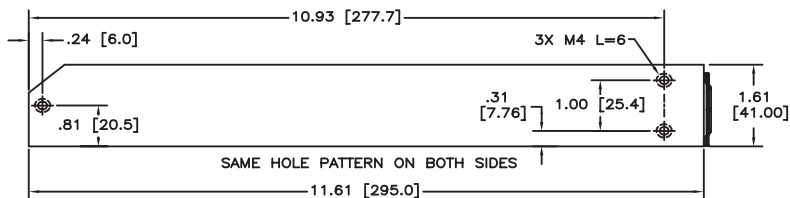
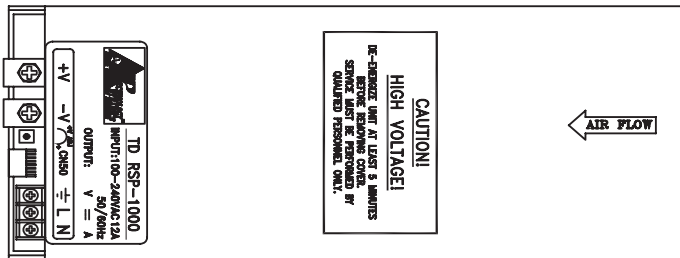
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.  
INPUT VOLTAGE RANGE DETERMINE OUTPUT POWER  
CONTACT FACTORY FOR ADDITIONAL INFORMATION.

## OPTION DESIGNATIONS

- HSP	Hot Swap
- ORD	Redundant Operation
- PAR	Parallel Operation
-CC	Conformal Coating

- MIL	Ruggedized/Militarized
- PNL	Panel Mount
- RK	Rack Mount
-4Hz	400 Hz Operation

## MECHANICAL OUTLINE



BOTTOM VIEW

CONTROL CONNECTOR  
JST PHDR-12VS OR EQUIVALENT

PIN NO.	DESCRIPTION
1	+ SENSE
2	- SENSE
3	PV
4	GND
5	DC OK
6	T-ALARM
7	ON / OFF
8	GND-AUX
9	GND-AUX
10	GND-AUX
11	+5V AUX
12	+12V AUX

3. APPROXIMATE WEIGHT: 4.1 LBS.