



## JCD-1K SERIES SINGLE OUTPUT SWITCHING POWER SUPPLIES 1200, 1500 & 2000 WATTS



### APPLICATIONS

The JCD-1K family of power supplies was designed to satisfy a market for low cost, high reliability applications. The JCD-1K is especially suitable for critical systems in remote locations, severe environment, redundant (N+1) or battery back-up uninterruptable operation. This versatile design is loaded with options, making it particularly suitable to telecommunication applications.

### STANDARD FEATURES

- Full Range Input
- Low Noise and Ripple
- Built In DC Fan For Cooling
- Current Share Function
- DC Good Signal
- Remote On/Off & Remote Sense Functions
- Rugged Construction
- Light Weight

### AVAILABLE OPTIONS

- Auto Line Selection
- 3 Phase Input
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack / Panel Mount
- Ruggedized for shock & vibration (MIL-STD-810)
- 400Hz Operation
- Conformal Coating
- LVBD (Battery Back-up)

### SAFETY AND EMISSIONS

- Designed to meet UL/cUL60950-1
- Designed to meet TUV EN60950-1
- Designed to meet EN55022 (Class A)

### SPECIFICATIONS

#### INPUT SPECIFICATIONS:

Input: 90-132/180-264V VAC Switch Select  
Input Frequency: 47-63Hz  
Inrush Current: 35A/115VAC, 55A/230VAC  
Input Current: 35A/115VAC, 20A/230VAC  
Efficiency: 85 typical (depending on output model)  
Hold-up time: 20ms/230 VAC, 15ms/230 VAC  
Leakage Current: <2.5mA maximum @ 240 VAC

#### OUTPUT SPECIFICATIONS

Adjustment Range:  $\pm 10\%$  (minimum)  
Minimum Load: none  
Regulation: Line  $\pm 0.5\%$  Load  $\pm 0.5\%$  Typical  
Ripple/Noise: 150mV peak to peak maximum (20 MHz)  
Set Point Accuracy:  $\pm 1\%$  (except 5V= $\pm 2\%$ ) (maximum)  
Overcurrent Protection: 105-125% Shut Down, Repower to Recover  
Overvoltage Protection: 115-140% Repower to Recover  
Overtemperature Protection: Heatsink Temp. 70°C  $\pm$  5°C Auto Recovery

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -20°C to +50°C  
Storage Temperature: -40°C to +85°C max 95% Relative Humidity  
Cooling: DC fan  
Humidity: 20-90% RH non condensing  
Vibration: 10-500Hz, 2G 10min/1cycle for 60 min (3 axes)(Standard Unit)  
Shock: 20G Peak Acceleration (Standard Unit)  
Weight: Approx: 12 LBS  
Size: 5.00" x 5.00" x 11.00"



NSF-ISR

Registered  
to ISO 9001

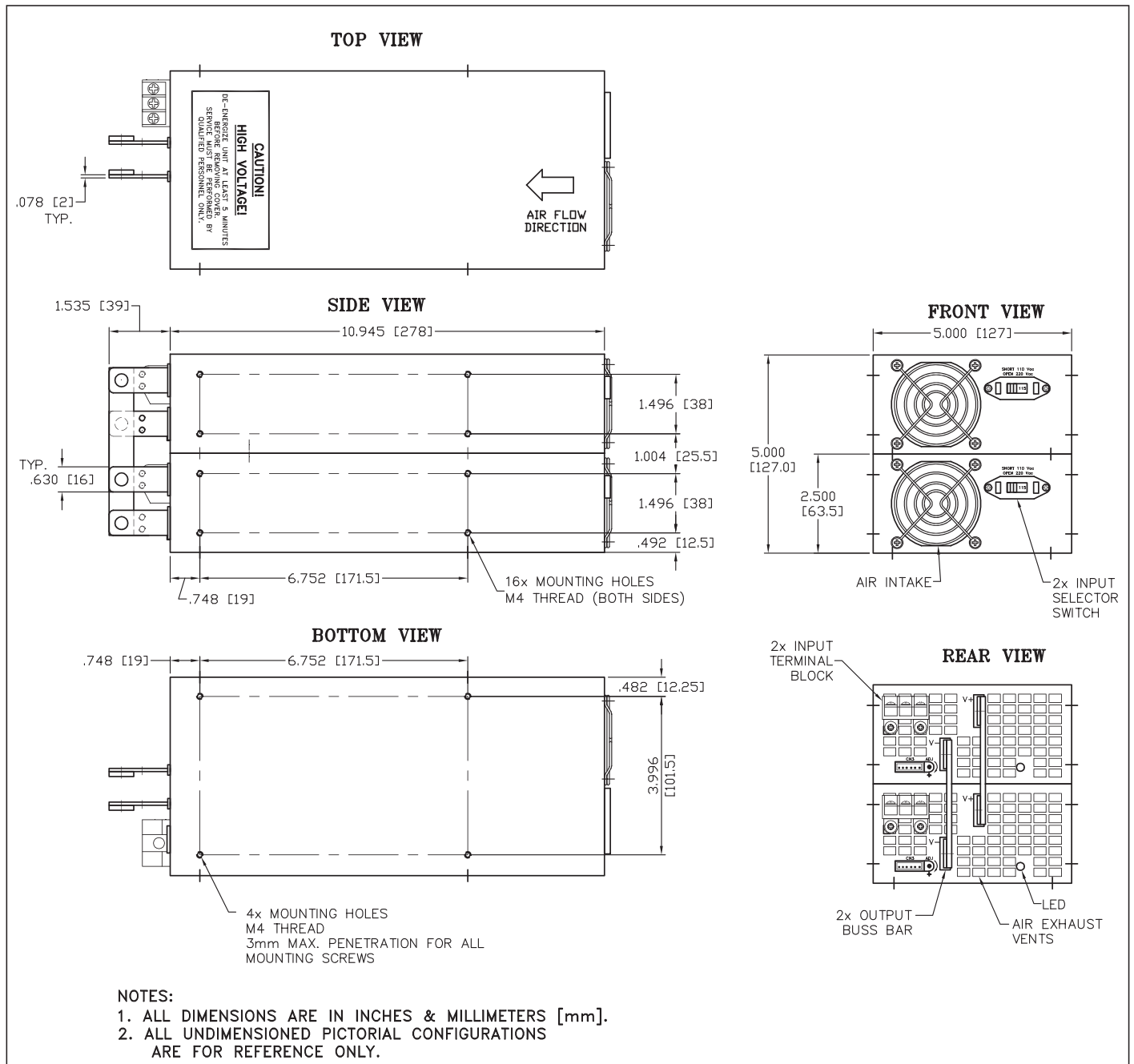
## MODEL SELECTION

1200 W MODEL		
Model	Nominal Voltage (VDC)	Maximum Current (ADC)
JCD-1K2-05	5V	200A
JCD-1K2-12	12V	100A
JCD-1K2-15	15V	80A
JCD-1K2-24	24V	50A
JCD-1K2-28	28V	42A
JCD-1K2-48	48V	25A

1500 W MODEL		
Model	Nominal Voltage (VDC)	Maximum Current (ADC)
JCD-1K5-12	12V	125A
JCD-1K5-15	15V	100A
JCD-1K5-24	24V	62.5A
JCD-1K5-28	28V	53A
JCD-1K5-48	48V	32A

2000 W MODEL		
Model	Nominal Voltage (VDC)	Maximum Current (ADC)
JCD-1K9-12	12V	166A
JCD-1K9-15	15V	133A
JCD-1K9-24	24V	83A
JCD-1K9-28	28V	71A
JCD-1K9-48	48V	41A

## MECHANICAL OUTLINE



Rev.-

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



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