

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

APPLICATIONS

The TCD-1K family of power supplies was designed to satisfy a market for low cost, high reliability applications. The TCD-1K is especially suitable for critical systems in remote locations, severe environment, redundant (N+1) or battery back-up uninterruptible 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

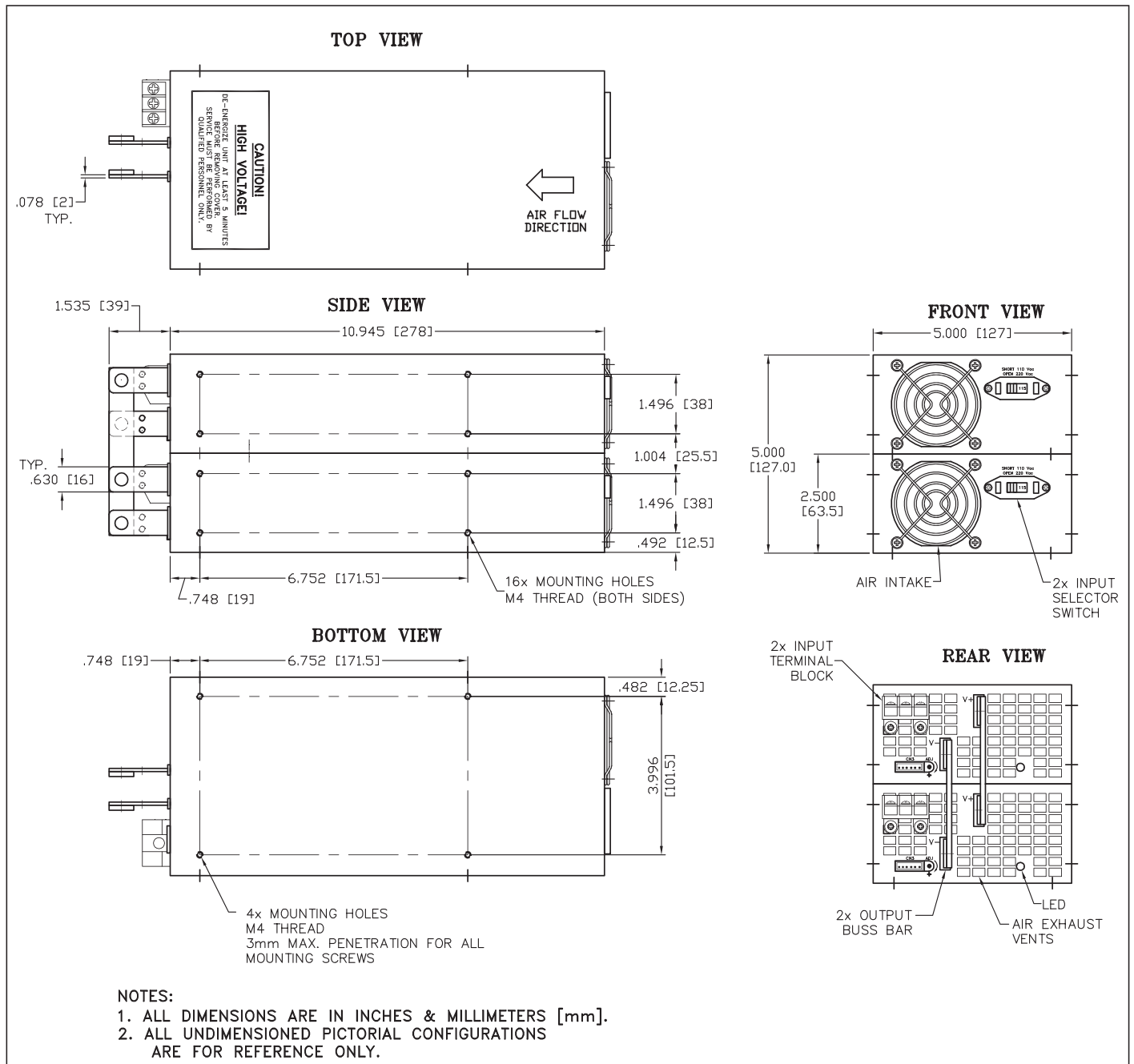
MODEL SELECTION

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

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

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

MECHANICAL OUTLINE



Rev.-

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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