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 uninterruptable operation. This versatile design is loaded with options, making it particularly suitable to telecommunication applications.

**APPLICATIONS**

- 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

**STANDARD FEATURES**

- 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)

**AVAILABLE OPTIONS**

- 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 V AC

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

#### 1200 W MODEL

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage (VDC)</th>
<th>Maximum Current (ADC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCD-1K2-05</td>
<td>5V</td>
<td>200A</td>
</tr>
<tr>
<td>TCD-1K2-12</td>
<td>12V</td>
<td>100A</td>
</tr>
<tr>
<td>TCD-1K2-15</td>
<td>15V</td>
<td>80A</td>
</tr>
<tr>
<td>TCD-1K2-24</td>
<td>24V</td>
<td>50A</td>
</tr>
<tr>
<td>TCD-1K2-28</td>
<td>28V</td>
<td>42A</td>
</tr>
<tr>
<td>TCD-1K2-48</td>
<td>48V</td>
<td>25A</td>
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#### 1500 W MODEL

<table>
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<tr>
<th>Model</th>
<th>Nominal Voltage (VDC)</th>
<th>Maximum Current (ADC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCD-1K5-12</td>
<td>12V</td>
<td>125A</td>
</tr>
<tr>
<td>TCD-1K5-15</td>
<td>15V</td>
<td>100A</td>
</tr>
<tr>
<td>TCD-1K5-24</td>
<td>24V</td>
<td>62.5A</td>
</tr>
<tr>
<td>TCD-1K5-28</td>
<td>28V</td>
<td>53A</td>
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<tr>
<td>TCD-1K5-48</td>
<td>48V</td>
<td>32A</td>
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#### 2000 W MODEL

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage (VDC)</th>
<th>Maximum Current (ADC)</th>
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</thead>
<tbody>
<tr>
<td>TCD-1K9-12</td>
<td>12V</td>
<td>166A</td>
</tr>
<tr>
<td>TCD-1K9-15</td>
<td>15V</td>
<td>133A</td>
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<tr>
<td>TCD-1K9-24</td>
<td>24V</td>
<td>83A</td>
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<tr>
<td>TCD-1K9-28</td>
<td>28V</td>
<td>71A</td>
</tr>
<tr>
<td>TCD-1K9-48</td>
<td>48V</td>
<td>41A</td>
</tr>
</tbody>
</table>

### MECHANICAL OUTLINE

**TOP VIEW**

**SIDE VIEW**

**FRONT VIEW**

**BOTTOM VIEW**

**REAR VIEW**

**NOTES:**
1. ALL DIMENSIONS ARE IN INCHES & MILLIMETERS [mm].
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.