The API Technologies TPS Tactical Power Supply Series by API Technologies is a man-portable commercial-off-the-shelf (COTS) solution designed to power C4ISR systems, critical electronic warefare (EW) and weapons equipment. The TPS features weatherproof & ruggedized construction which allows it to withstand extreme temperature and harsh environments. When fielded, the TPS supports powering fielded special ops equipment reducing vehicle wear and tear and fuel consumption.

The TPS converts AC power from generators or community power and converts power to 28 VDC power at a variety of amperages (150A, 100A, and 75A models). Source power of AC can be one of three different AC inputs.

- 1 x Three Phase WYE, 208/120 VAC
- 1 x Single Phase, 240/120 VAC Mid-Point Neutral
- 3 x Single Phase, 100-127 VAC

The reverse polarity protected battery charger provides 28 Volts of DC power at 10 Amps to a connected battery. The battery detect feature identifies when a battery is connected and determines state of charge and float charges the battery to 100% for immediate crank-ready state.

The TPS has a built-in “soft start” feature, circuit protection, and transient voltage suppression. Integrated forced air cooling and heat sinks aid in heat dissipation while automatic overtemperature shut down to protect the TPS and critical loads. Manually check status of AC inputs, DC output, LAN connection, Transient Voltage Suppression (TVS), battery charger, and temperature with the “push to view” status indicator button on the front panel.

The TPS provides remote monitoring via communication and monitoring protocols include Telnet, SnMPv2, and Web Interface. Users can remotely turn the DC outlet on/off, get the battery charger status, create alarm limits DC Voltage and monitor the voltage and current status.
Technical Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>AC Power Entry Connector</td>
<td>MIL-DTL-5015, 28-1P Locking Bayonet Connector</td>
</tr>
</tbody>
</table>
| Input Power - Single connector permits three types of input power | 1 x Three Phase WYE, 208/120 VAC  
1 x Single Phase, 240/120 VAC Mid-Point Neutral  
3 x Single Phase, 100-127 VAC |
| Input Frequency               | 47 - 63 Hz                                         |
| Input Current                 | 20A/Line @ Full Load                               |
| Overload Protection           | 25A/3P Circuit Breaker, Flat Rocker Style          |
| DC Output Connectors          | MIL-DTL-5015  
32-5S Locking Bayonet Connector |
| Comunication Interface        | 10/100 BaseT Ethernet                              |
| Network Interface             | TCP/IP, Telnet, SNMPv2, HTTP, Web                  |
| Push to View Status Indicators | AC Power Input, DC Power Output, Battery Charger, LAN, High Temperature, Transient Voltage Suppression (TVS) |
| Battery Charger               | 28VDC@10A bulk charging capacity MIL-DTL-5015, 16-11S locking bayonet connector Intelligent battery charging Reverse polarity protection |
| Operating Temperature         | -40°F (-40°C) to 140°F (60°C)                      |
| Cooling                       | Integrated Forced Air Cooling                      |
| Humidity                      | Humidity: 0 to 95% (Non-condensing)                |
| Elevation                     | Elevation: 15,000 ft (4,572 meters)                |
| Storage Temperature           | -40°F (-40°C) to 140°F (60°C)                      |
| Humidity                      | Humidity: 0 to 95% (Non-Condensing)                |
| Elevation                     | Elevation: 32,808 ft (10,000 meters)               |
| Mechanical Characteristics    | Enclosed, Waterproof Chassis Rugged construction designed per MIL-STD 810 |
| Remote Monitoring             | AC Line Input Voltage; DC Output Voltage; DC Output Current; Operational Status |
| Remote Control                | DC power output On/Off; battery charger On/Off     |

<table>
<thead>
<tr>
<th>P/N</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>7200-A-155</td>
<td>150 A @ 28VDC</td>
<td>4200 Watts</td>
<td>85 lbs</td>
<td>17” W x 17.475” H x 13” D</td>
</tr>
<tr>
<td>7200-A-161</td>
<td>75 A @ 28VDC</td>
<td>2100 Watts</td>
<td>55 lbs</td>
<td>13.75” W x 11.5” H x 12” D</td>
</tr>
</tbody>
</table>

Note 1: Optional Mounting Brackets and Roll Cage Change Dimensions & Weight

Maximum Operating Ranges

- **7200-A-155**
- **7200-A-161**

Maximum operating ratings in chart are for AC input configuration: three-phase 4 wire WYE, 190-220 L-L VAC

Product Designed to Meet MIL-STD Environment Standards

- Water Resistant
- Thermal Shock
- Salt & Fog
- Blowing Sand & Dust
- Fungus
- Mechanical Shock & Vibration
- Ground Bond
- MIL STD 810 & 461

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Available Options

Portable TPS are available with or without features such as: Battery Charger, Remote Communications, EPO (Emergency Power Off), Roll Cage, Cable Sets, Junction Box, and more...

PART - JB-155
Junction Box with Cables

PART - 7200-A-161
with the roll cage and cables

Cable Accessory Information

CA155-4-90
3/C/12 AWG

NEMA 5-20P
26 Feet ± 3 Inches

CA155-1-90
5C/10 AWG

MIL-C-22992, 32-12P
26 Feet ± 3 Inches

MIL-DTL-5015, 28-1S
Military Applications

- C4ISR
- Common Ground System Shelters
- Mission Control Shelters
- Satellite Communication (SATCOM)
- UAV Ground Stations
- Transit Cases
- Simulation and Training Shelters
- Network Infrastructure
- Forward Operating Base (FOB)
- Tactical Operations Center (TOC)
- Automated Test Equipment (ATE)
- Airborne (400Hz Models)
- Ground Radar Platforms