AC and DC power solutions for military, commercial, and industrial applications.

Power Control, Conversion, & Distribution Solutions
What We Do

Electromagnetic Spectrum Management
Innovative security solutions to protect users from the loss of classified data due to unwanted emanations and conducted emissions. Electromagnetic and filtering solutions to mitigate signal interference in high performance defense and mission critical applications.

RF and Microwave Signal Conditioning & Management
RF, microwave, millimeterwave, and power solutions to enable the wireless link across global defense, commercial, space, and test applications.

Value-Added Integration
From components to subsystem solutions
API provides rugged, reliable, and efficient subsystems, assemblies, and components for use in the most mission critical defense and military applications, supporting government programs throughout the world. With diverse program experience and preferred supplier status with some of the industry’s top prime contractors, our precision-engineered MIL-grade products are ideal for applications where uncompromised reliability and uninterrupted performance is required.

API Technologies is an innovative designer and manufacturer of high performance systems, subsystems, assemblies and components for technically demanding RF, microwave, millimeterwave, electromagnetic, power, and security applications. A high reliability technology pioneer with over 70 years of heritage, API’s products are used by global defense, industrial, and commercial customers in applications spanning radar, electronic warfare, unmanned systems, missile defense, harsh environments, space, communications, medical, test and instrumentation, and more.
<table>
<thead>
<tr>
<th>Product</th>
<th>Input</th>
<th>Output</th>
<th>PDU Monitoring</th>
<th>Remote Management</th>
<th>Size &amp; Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AC Switched PDU</strong></td>
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<tr>
<td><strong>AC</strong></td>
<td>120 V / 47-63Hz</td>
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<tr>
<td><strong>AC</strong></td>
<td>100-125 V</td>
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<tr>
<td><strong>AC</strong></td>
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<tr>
<td>Monitors input line voltage, total load current, line frequency, and remote external temperature.</td>
<td>Remote operation and control capabilities via Telnet or Web interface.</td>
<td>17.22”L X 8”W X 1.745”H</td>
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<tr>
<td><strong>High Power 3 Phase Intelligent PDU</strong></td>
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<tr>
<td><strong>AC</strong></td>
<td>Single Ø: 100-127, 200-240</td>
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<tr>
<td><strong>AC</strong></td>
<td>Three Ø: 200-240</td>
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<tr>
<td><strong>AC</strong></td>
<td>Two Ø: 120/208</td>
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<tr>
<td>Remote Power Sequencing and Outlet Switching.</td>
<td>Function and Mode Switching: Local: Off and Short; Sequential and Order.</td>
<td>190-220 L-L V</td>
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<td><strong>DC Switch PDU</strong></td>
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<tr>
<td><strong>DC</strong></td>
<td>48 V or +24/+28 V</td>
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<tr>
<td><strong>DC</strong></td>
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<tr>
<td>Remote Monitoring and Control Capabilities via Telnet. Remote operation and control of low-level security.</td>
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<td>128 x 134 x 240</td>
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<td><strong>TPS 75</strong></td>
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<td><strong>DC</strong></td>
<td>18/36V Vehicle</td>
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<tr>
<td><strong>DC</strong></td>
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<tr>
<td>Battery charger.</td>
<td>12” x 13” x 20”</td>
<td>1.75”H x 17.25”W x 8.00”D</td>
<td>13.3lbs</td>
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<tr>
<td><strong>DC Switched PDU</strong></td>
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<tr>
<td><strong>DC</strong></td>
<td>12/28VDC Battery 12/28</td>
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<tr>
<td><strong>DC</strong></td>
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<tr>
<td>Remote Monitoring of Battery Charge State.</td>
<td>Remote Monitoring with user enabled remote ON/OFF for the DC outlet and battery charger, alarm limits creation, and more.</td>
<td>12” x 13” x 15”</td>
<td>55lbs</td>
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Power Control & Distribution

AC Switched Power Distribution Unit

The AC SMARTStart® HR (High Reliability) series is a tactical military grade intelligent switched and sequenced PDU distributing single phase 30 Amps power in a compact 1U package.

Features:
- Monitors: input line voltage, total load current, line frequency
- Power up sequence order, time delay
- 8 or 16 outlets available; IEC or NEMA

High Power 3 Phase Intelligent Power Distribution Unit

The AC SMARTStart® Series, our highest powered (80A) rack mounted design, supports applications where power versatility is required.

Features:
- Power ON/OFF indication for each branch circuit
- Safety lock keys, emergency power off (EPO)
- NFPA-79 Cat-0 stop compliant option available
- Outlet types: IEC & NEMA
- Network interface: Telnet, Web, SNMP

DC Switched Power Distribution Unit

The DC SMARTStart® series is an intelligent switched and sequenced PDU distributing DC power up to 100 Amps per bank in a compact 1U package.

Features:
- Solid state power control
- Electronic switchable solid state breakers
- Voltage, circuit breaker status, and internal temperature monitoring
- Network interface: Telnet, Web, SNMP, Serial RS232

Build-to-Print & Custom Solutions

API Technologies is a fully integrated “one-stop shop” for engineering, design, and manufacturing of OEM, box builds, build to print, and custom solutions. With our expertise, established business partners, design, and manufacturing capabilities, API is ready to collaborate and provide a solution for your applications. Custom testing for UL and military environmental requirements available.
Power Conversion & Distribution

Power Entry & Export Panel
The Power Entry and Export Panel acts as the distribution solution connecting power to a shelter and from the power source.

Features:
• Emergency power off
• AC & DC EMI Filtering
• Low voltage disconnect
• Branch circuit protection

Tactical Power Supply (TPS 75)
The Tactical Power Supply (TPS 75) is designed to power C4ISR systems, critical electronic warfare (EW) and weapons equipment.

Features:
• Integrated battery charger
• EMI filtering protecting against noise and interference is compliant to MIL-STD 461
• Auto over-temperature shut down protects critical loads
• Reliable Construction with Integrated heat sinks and forced air cooling
• Network interface: Telnet, Web

Portable Tactical Power Supply
This lightweight 200W power supply is capable of being powered from a universal shoreline or vehicle.

Features:
• Multiple power sources AC/ or DC battery or vehicle battery
• Convection cooled
**Tactical Power Supply (TPS 150)**

The Tactical Power Supply (TPS 150) is designed to power C4ISR systems, critical electronic warfare (EW) and weapons equipment where higher power is needed.

Features:
- Integrated battery charger; 28 Volts of DC power at 10A
- EMI filtering protecting against noise and interference is compliant to MIL-STD 461
- Auto over-temperature shut down protects critical loads
- Forced air cooling
- Network interface: Telnet, Web

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**Tactical, Portable Junction Box**

The Junction Box is a portable COTS solution designed for distributing power from a tactical power supply (TPS75 or TPS150).

Features:
- (4) 28 VDC outputs
- Battery charger pass-through when using the TPS75 or TPS155 and the appropriate cable
- Meets MIL-STD 810

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**Dual Input Tactical Power Supply**

This dual source 650W power supply is capable of being powered from a shoreline or vehicle.

Features:
- Can use multiple power sources (AC or DC battery alternator)
- Convection cooled

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**Applications**

- Command & Control Systems
- Applications
- Command & Control Systems
- Reconnaissance C4ISR Systems
- Military Shelters
- Fielded Generators
- Tactical Vehicles & Equipment
- Secure Communications
- UAV Ground Stations
- Military Electronics
- Electronic Warfare
- Aerospace/High Frequency
- Critical Weapons Equipment
- Mission Control Shelters

Please refer to the product sales drawing for additional specification information.