MICRO POWER UNIT
**REQUIREMENTS**

**Power Source**
- High power/weight ratio
- Compact size
- Runs on heavy fuels (Jet-A, JP-4, JP-8)
- Full output capability on a hot day

**Generator**
- Very lightweight permanent magnet alternator
- Solid state power electronics
- 28V/400A output installation
- Small enclosure
- Light weight, less than 75lbs
- Low noise relative to turbine engine

**TARGETS**

**Aerospace**
- Small Jets & Turboprops without APUs
- OEMs
- Charter Companies
- Fractional Companies
- Corporate Fleets
- Special Mission Aircraft

**Adjacencies**
- Military Vehicles: M1 Tank, Joint Light Tactical Vehicle, Paladin
- Mobile Command Posts
- Mobile Medical Facilities
- Emergency Response

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**PARAMETER/FEATURE**

<table>
<thead>
<tr>
<th>PARAMETER/FEATURE</th>
<th>CORE</th>
<th>HELICOPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance (Power Output) amps</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Power Quality</td>
<td>MIL-PRF-704</td>
<td>MIL-PRF-704</td>
</tr>
<tr>
<td>Voltage Regulation, Vdc</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Fuel Burn (SL, 59F) gal/hr</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>System Weight (dry) lbs</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Core Reliability, APU Op hours</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>Average Time on Wing</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>Maintainability</td>
<td>Minimal</td>
<td>Minimal</td>
</tr>
<tr>
<td>Inflight Operable</td>
<td>Ground</td>
<td>Ground</td>
</tr>
<tr>
<td>Cockpit/Operation interface</td>
<td>Simple</td>
<td>Simple</td>
</tr>
<tr>
<td>Acoustics, 5m perimeter (dB)</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Acoustics, Aircraft door (dB)</td>
<td>70</td>
<td>70</td>
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<tr>
<td>Starting Envelope, ft</td>
<td>14,000</td>
<td>14,000</td>
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<tr>
<td>Ambient Temperature, F</td>
<td>-40 to 130</td>
<td>-40 to 130</td>
</tr>
<tr>
<td>Dimensions (inches, width, height, length)</td>
<td>12X13X24</td>
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</tr>
</tbody>
</table>

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**FEATURES & BENEFITS**

**Operation Assistance**
- Self-reliance for secondary power
- Charges batteries
- Assists main engine start

**Flight Planning**
- Run cockpit systems 45 minutes prior to departure
- Plan course without running main engine

**Increased Aircraft Value**
- Sell or lease aircraft for top dollar
- Increased value to passengers - increased revenue for chartered flights

**Comfortable Environment**
- Control temperature inside cabin prior to passenger arrival
- Keep pilot and passengers comfortable while planning flights and preparing for departure

**Fuel Consumption & Reliability**
- Up to 80% less fuel burn compared to running main engine
- Increase reliability of engines by running less while on ground

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