Invest in reliable aircraft power generation with our line of DC brushed Starter Generators designed for all types of turbine engines and auxiliary power units (APUs). We offer several already approved designs, but specialize in developing custom solutions for any application.

Our rugged Starter Generator designs lead the industry for brush and bearing life, delivering greater reliability and reduced TBO lowering overall cost of ownership, especially when paired with our innovative and durable Generator Control Units.

**Features & Benefits:**

- Up to 400A continuous duty
- 6,250 - 12,000 RPM speed range
- Operating altitude up to 51,000 ft. (15,544 meters)
- Extended life brushes offer best-in-class time between overhaul (TBO)

- Maximized output at low speeds to optimize fuel savings
- Direct or Quick Attach / Detach (QAD) mounting configurations
- Ram air, bleed air or self-cooled options
- TSO C56b approval

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**Engine Examples:**
Arriel, FJ33, FJ44, HF120, PT6, PW535E, PW615F, PW617, TPE331, RR300

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**Features**

<table>
<thead>
<tr>
<th>Features</th>
<th>MG84 Series</th>
<th>MG88 Series</th>
<th>MG94 Series</th>
<th>MG103 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Output Continuous</td>
<td>160 - 200 amps</td>
<td>300 amps</td>
<td>325 amps</td>
<td>400 amps</td>
</tr>
<tr>
<td>Cooling</td>
<td>Self-Cooled</td>
<td>Self-Cooled</td>
<td>Self-Cooled</td>
<td>Self-Cooled</td>
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<tr>
<td>Altitude</td>
<td>35,000 ft.</td>
<td>35,000 ft.</td>
<td>51,000 ft.</td>
<td>51,000 ft.</td>
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<tr>
<td>Temperature</td>
<td>-67°F to 139°F</td>
<td>-67°F to 139°F</td>
<td>-67°F to 139°F</td>
<td>-67°F to 139°F</td>
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<tr>
<td>Weight</td>
<td>22 lbs.</td>
<td>31 lbs.</td>
<td>32 lbs.</td>
<td>36.9 lbs.</td>
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<tr>
<td>Certification</td>
<td>TSO C56b</td>
<td>TSO C56b</td>
<td>TSO C56b</td>
<td>TSO C56a</td>
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<tr>
<td>Rated Voltage</td>
<td>30 VDC</td>
<td>30 VDC</td>
<td>30 VDC</td>
<td>30 VDC</td>
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<tr>
<td>RPM - Normal Operation</td>
<td>7,200 - 12,000</td>
<td>7,700 - 12,000</td>
<td>6,250 - 12,000</td>
<td>6,750 - 12,000</td>
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<tr>
<td>Overload Current</td>
<td>400 amps</td>
<td>600 amps</td>
<td>650 amps</td>
<td>800 amps</td>
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<tr>
<td>Overspeed</td>
<td>14,000</td>
<td>14,000</td>
<td>14,000</td>
<td>14,000</td>
</tr>
</tbody>
</table>

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Learn more at: AmetekPDS.com
Features & Benefits:

- Soft start feature for prolonged battery life and increased engine performance
- Patented technology delivers proprietary soft charging for enhanced battery life
- Dual magnetic latching relay design for increased durability
- Triple-redundant overvoltage protection
- Voltage regulation range of 26 to 30 VDC
- Start contactor and line contactor control
- Paralleling control, if needed
- Adjustable voltage setting, field weakening and automatic starter cutout
- Dead bus build-up display
- Selective trip
- Analog or digital electronics
- RTCA / DO-160D and RTCA / DO-178B, Level B compliant