



**Connecting  
A Better World.**

At Topcast, we pride ourselves as one-stop-shop for spare parts, components, raw materials and consumables sourcing service provider with our extensive network of business partners, global sourcing team and decades of experience servicing a vast and diverse customer base. We are a global connector, ultimately, we connect the world.

## SAVE 50% or More with Topcast Program!

### Starter Generators & Power Distribution Units

*Over 70 Years of Quality Workmanship and Excellence in Design*

**Skurka Aerospace Inc.** is a leading designer & manufacturer of highly custom electromechanical components with full system integration capability Serving the Aerospace industry with custom engineered solutions including **Brush/ Brushless Starter Generators, Generator Control Units, Power Distribution Units, and Generators.**

### Qualifications

#### Engineering

- In-house Capabilities for Thermal, Altitude & HASS /HALT Testing, Modeling, Stress, and Flow Predictions
- High Power Density Packaging
- DO-160 & MIL-STD-810 Compliance

#### Quality

- ISO 9001 / AS9100 Registered
- In-house Designated Manufacturing Inspection Representative (DMIR)
- FAR Part 21 Supplier-FAA Flight Standards & MIDO Offices Audited & Approved Quality System

#### Production

- Designated Onsite Manufacturing Groups
- 3D Printing Capabilities for Rapid Tool and Fixture Manufacturing
- Machining, Painting, Grinding, Vacuum Encapsulation and Welding for Military & Commercial Flightworthy Products

#### Repair

- FAA Repair Station #S7GR035N
- Depot Repair Facility for Military Customers
- 100% Genuine OEM Spare Parts with Factory Warranty
- Fleet Repair Contract Option including Rotable Pool and Exchange Program





# Specification

## Starter Generator / Generator Control Units



**28VDC  
Brush Starter  
Generators**



**28VDC  
Brushless Starter  
Generators**



**Generator Control  
Units**

<b>Types</b>	<ul style="list-style-type: none"> <li>• 150A, 160A, 200A, 250A, 300A and 400A</li> <li>• Series &amp; Shunt Start</li> </ul>	<ul style="list-style-type: none"> <li>• 120A, 200A and 300A+</li> <li>• Fan-cooled</li> </ul>	<ul style="list-style-type: none"> <li>• Analog &amp; Digital</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• Time Between Overhaul of 1,000 hrs</li> <li>• Extended Life Brushes</li> <li>• High Performance Bearings</li> <li>• Self-cooled &amp; Blast-cooled</li> </ul>	<ul style="list-style-type: none"> <li>• Light weight (20-35LBS)</li> <li>• Time Between Overhaul of 3,200 hrs. to "On Condition"</li> <li>• High Performance Bearings</li> <li>• Programmable Start Torque</li> <li>• Control Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Automatic BIT &amp; Monitoring</li> <li>• Threshold Selection</li> <li>• Serial Communication</li> <li>• Integral Field, Flash Start and Equalizer Relays</li> <li>• Protective Functions</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>• Power (HP): 3.8 to 12.5</li> <li>• Rated Power (kW): 4.5 to 12</li> <li>• Speed (RPM): 6,800 to 13,000</li> <li>• Continuous Load (A): 150 to 400</li> </ul>	<ul style="list-style-type: none"> <li>• Power (HP): 3.8 to 7.6</li> <li>• Rated Power (kW): 6 to 15</li> <li>• Speed (RPM): 6,800 to 15,000</li> <li>• Continuous Load (A): 200 to 500</li> </ul>	<ul style="list-style-type: none"> <li>• Field Power: Up to 280W</li> <li>• LC Power: Up to 112W</li> <li>• SC Power: Up to 112W</li> <li>• Functional Status and Indication Signals</li> </ul>
<b>Sizes</b>	<ul style="list-style-type: none"> <li>• Outside Diameter: 5.25-6.35 in (133-161 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Outside Diameter: 5.25-6.35 in (133-161 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Envelope: 6.2 x 4.2 x 4.4 in (157x107x112 mm)</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Fixed Wing/ Helicopter/ UAV</li> <li>• APU's</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Wing/ Military Helicopter</li> <li>• APU's</li> </ul>	<ul style="list-style-type: none"> <li>• DC Brush/ Brushless Starter Generators</li> </ul>
<b>Platform Examples</b>	<ul style="list-style-type: none"> <li>• Q400</li> <li>• Various Helicopters (e.g. EC120, AW139)</li> </ul>	<ul style="list-style-type: none"> <li>• Various Helicopters and Fixed Wings</li> </ul>	<ul style="list-style-type: none"> <li>• AW139</li> <li>• Phenom 100/300</li> </ul>

## Generator / Power Distribution Units



**270VDC Generators**



**Power Distribution Units**

<b>Types</b>	<ul style="list-style-type: none"> <li>• 25kW+ Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• 28VDC, 270VDC and 115VAC</li> <li>• Single Channel, Dual Channel</li> <li>• Contactor-based or SSPC</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• Integrated Control Electronics</li> <li>• Bearing Failure Indicator</li> <li>• Low Short Circuit Current</li> </ul>	<ul style="list-style-type: none"> <li>• Power Conversion</li> <li>• GPU Undervoltage/ Overvoltage Protection</li> <li>• Power Switching</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>• Power (kW): 35 @ 270VDC</li> <li>• Speed (RPM): Up to 15,000</li> </ul>	<ul style="list-style-type: none"> <li>• Power (kW): 5.6-35</li> <li>• Performance Status Signals</li> </ul>
<b>Sizes</b>	<ul style="list-style-type: none"> <li>• Outside Diameter: 7 in (178 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Envelope (in): Varies by Type</li> <li>• Custom per Application</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Fixed Wing/ Helicopter</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Wing/ Helicopter</li> </ul>
<b>Platform Examples</b>	/	<ul style="list-style-type: none"> <li>• N219</li> </ul>

Headquarters

# Hong Kong

 +852 2305 4111  +852 2305 4388 [inquiries@topcast.com](mailto:inquiries@topcast.com) 26/F Metropole Square,  
2 On Yiu Street, Shatin, Hong Kong

Website



LinkedIn



## Our Presence

### Asia

India      Korea      Thailand  
Indonesia      Philippines      Malaysia  
Japan      Singapore

### Greater China

Beijing      Shanghai  
Chengdu      Shenzhen  
Guangzhou      Taipei

### America

United States      Colombia  
Brazil  
El Salvador

### Oceania

Australia

### EMEA

United Kingdom      United Arab Emirates



## AOG SUPPORT

We are committed to providing our support to you at any location worldwide, with a team of highly skilled, trained, and experienced aircraft maintenance licensed engineers as soon as possible.

[inquiries@topcast.com](mailto:inquiries@topcast.com)

**At your service.  
Anytime, Anywhere.**