

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



Headquarters:

Topcast,
26/F Metropole Square,
2 On Yiu Street,
Hong Kong SAR

T: (852) 2305 4111
F: (852) 2305 4388
E: inquiries@topcast.com



LinkedIn



www.topcast.com

Specification

Starter Generator / Generator Control Units



**28VDC
Brush Starter
Generators**



**28VDC
Brushless Starter
Generators**



**Generator Control
Units**

	28VDC Brush Starter Generators	28VDC Brushless Starter Generators	Generator Control Units
Types	<ul style="list-style-type: none"> • 150A, 160A, 200A, 250A, 300A and 400A • Series & Shunt Start 	<ul style="list-style-type: none"> • 120A, 200A and 300A+ • Fan-cooled 	<ul style="list-style-type: none"> • Analog & Digital
Features	<ul style="list-style-type: none"> • Time Between Overhaul of 1,000 hrs • Extended Life Brushes • High Performance Bearings • Self-cooled & Blast-cooled 	<ul style="list-style-type: none"> • Light weight (20-35LBS) • Time Between Overhaul of 3,200 hrs. to "On Condition" • High Performance Bearings • Programmable Start Torque • Control Electronics 	<ul style="list-style-type: none"> • Automatic BIT & Monitoring • Threshold Selection • Serial Communication • Integral Field, Flash Start and Equalizer Relays • Protective Functions
Outputs	<ul style="list-style-type: none"> • Power (HP): 3.8 to 12.5 • Rated Power (kW): 4.5 to 12 • Speed (RPM): 6,800 to 13,000 • Continuous Load (A): 150 to 400 	<ul style="list-style-type: none"> • Power (HP): 3.8 to 7.6 • Rated Power (kW): 6 to 15 • Speed (RPM): 6,800 to 15,000 • Continuous Load (A): 200 to 500 	<ul style="list-style-type: none"> • Field Power: Up to 280W • LC Power: Up to 112W • SC Power: Up to 112W • Functional Status and Indication Signals
Sizes	<ul style="list-style-type: none"> • Outside Diameter: 5.25-6.35 in (133-161 mm) 	<ul style="list-style-type: none"> • Outside Diameter: 5.25-6.35 in (133-161 mm) 	<ul style="list-style-type: none"> • Envelope: 6.2 x 4.2 x 4.4 in (157x107x112 mm)
Applications	<ul style="list-style-type: none"> • Fixed Wing/ Helicopter/ UAV • APU's 	<ul style="list-style-type: none"> • Fixed Wing/ Military Helicopter • APU's 	<ul style="list-style-type: none"> • DC Brush/ Brushless Starter Generators
Platform Examples	<ul style="list-style-type: none"> • Q400 • Various Helicopters (e.g. EC120, AW139) 	<ul style="list-style-type: none"> • Various Helicopters and Fixed Wings 	<ul style="list-style-type: none"> • AW139 • Phenom 100/300

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Specification

Generator / Power Distribution Units



270VDC Generators



Power Distribution Units

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

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