



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

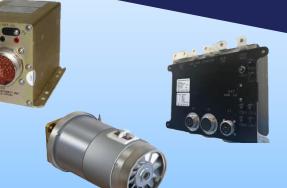
- ISO 9001 / AS9100 Registered
- In-house Designated Manufacturing Inspection Representative (DMIR)
- FAR Part 21
 Supplier-FAA Flight
 Standards & MIDO
 Offices Audited &
 Approved Quality
 System

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









Specification

Starter Generator / Generator Control Units

	28VDC Brush Starter Generators	28VDC Brushless Starter Generators	Generator Control Units
Types	 150A, 160A, 200A, 250A, 300A and 400A Series & Shunt Start 	120A, 200A and 300A+Fan-cooled	• Analog & Digital
Features	 Time Between Overhaul of 1,000 hrs Extended Life Brushes High Performance Bearings Self-cooled & Blast-cooled 	 Light weight (20-35LBS) Time Between Overhaul of 3,200 hrs. to "On Condition" High Performance Bearings Programmable Start Torque Control Electronics 	 Automatic BIT & Monitoring Threshold Selection Serial Communication Integral Field, Flash Start and Equalizer Relays Protective Functions
Outputs	 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 	 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 	 Field Power: Up to 280W LC Power: Up to 112W SC Power: Up to 112W Functional Status and Indication Signals
Sizes	• Outside Diameter: 5.25-6.35 in (133-161 mm)	 Outside Diameter: 5.25-6.35 in (133-161 mm) 	 Envelope: 6.2 x 4.2 x 4.4 in (157x107x112 mm)
Applications	 Fixed Wing/ Helicopter/ UAV APU's 	 Fixed Wing/ Military Helicopter APU's 	DC Brush/ Brushless Starter Generators
Platform Examples	 Q400 Various Helicopters (e.g. EC120, AW139) 	 Various Helicopters and Fixed Wings 	• AW139 • Phenom 100/300

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Specification

Generator / Power Distribution Units

	270VDC Generators	Power Distribution Units
Types	• 25kW+ Brushless	 28VDC, 270VDC and 115VAC Single Channel, Dual Channel Contactor-based or SSPC
Features	 Integrated Control Electronics Bearing Failure Indicator Low Short Circuit Current 	 Power Conversion GPU Undervoltage/ Overvoltage Protection Power Switching
Outputs	 Power (kW): 35 @ 270VDC Speed (RPM): Up to 15,000 	 Power (kW): 5.6-35 Performance Status Signals
Sizes	Outside Diameter: 7 in (178 mm)	Envelope (in): Varies by TypeCustom per Application
Applications	Fixed Wing/ Helicopter	Fixed Wing/ Helicopter
Platform Examples	1	• N219

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