

STARTER GENERATORS



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

Engine Examples:

Arriel, FJ33, FJ44, HF120, PT6, PW535E, PW615F, PW617, TPE331, RR300

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

GENERATOR CONTROL UNITS



We have decades of experience in developing and manufacturing Starter Generators and Generator Control Units (GCUs) and have become the aerospace and defense industry leaders for size, weight, power output and reliability.

Our versatile GCUs are available as COTS or can be tailored for your exact specifications, including single or twin-engine system designs. Each unit is designed to provide exceptional voltage regulation, fault protection and soft start features. In addition, our patented technology solution delivers proprietary soft charging for enhanced battery life.

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



Custom Designs Available Upon Request

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