

# DC STARTER-GENERATOR EMG-200

**An air-cooled, brush type machine designed for starting APUs or aircraft engines and as a supply of electrical power to boarding systems**



## STARTER-GENERATOR

### Main features

- Low weight
- Long operating life time
- Short-time overloading possible
- High starting performance
- Self-cooling system
- Flexible shaft with damper and shear neck section
- High operating altitude
- Designed in accordance with RTCA/DO-160 G and MIL-STD-704F

### Main parameters

Output voltage	30 V DC
Rated load current	200 A
Rated output	6 kW
Speed range	7,300 - 12,150 rpm
Overspeed	15,000 rpm (5 minutes)
Maximum speed for regulation	13,000 rpm
Minimum speed for regulation	6,000 rpm (for 200A)
Operating altitude	10,000 m
Inlet air temperature	-55 to 70 °C

### Starter performance

Maximal DC voltage	28 V
Maximal input current	1,000 A with return to 800 A within 1.5 sec.

### Reliable operating lifetime

Hours of operation	4,500
Number of starts	9,000

### Mechanical characteristics

Weight	9.8 kg
Diameter length	134x188 mm
Direction of rotation	CCW facing the shaft +CW variant

## GENERATOR CONTROL UNIT (GCU)

### Main features

- Designed in accordance with current standards
- Low weight
- Maintenance free
- Possible reset from an aircraft cockpit
- Electrical network protection

### Main parameters

Nominal power supply	28 V DC
At nominal RPM, GCU keeps the voltage value at 28.5 V with permitted deviations, in accordance with MIL-STD-704F	
Output voltage set in range	26 - 30 V

### Reliable operating lifetime

Operating hours	10,000
Number of starts	10,000

### Protections

Reverse current protection in generator mode
Overvoltage protection
Undervoltage protection
Overcurrent protection
Overexcitation protection
Reverse polarity
Wiring disconnection protection
Power wiring disconnection detection
Ground fault protection (differential current protection)