



28 Vdc POWER SUPPLY ADAPTED TO THE NEW GENERATION AIRCRAFT & ROUGH AIR SIDE OPERATION CONDITIONS

SC20

Our expertise in power electronics and electromagnetics for 50 years, and cooperation with airlines and aircraft manufacturers, enables us to guarantee you electrical power at 28 Vdc for very reliable, efficient, and measurable aircraft power supply. GUINAULT power supply provides the power supply at the lowest cost for the aircraft of today and tomorrow.

STURDY DESIGN: GUINAULT SC20 is designed with an ultra corrosion resistant galvanized chassis, designed for rough conditions. The cooling airflow is fitted with fine granulation air filters. The SC20 is all weather resistant, for operation indoor and outdoor, from - 30° C to + 55° C.

REDUCED MAINTENANCE: The maintenance is limited to the air filter cleaning or replacement, once a year.

RELIABILITY: The design is based on robust thyristors, air cooled power pack, and IP 55 design ensures the highest reliability.

SIMPLY OPERATION: The operation is limited to pushing an ON-OFF button to get the power at the plug.

MILITARY SPECIFICATION DESIGN: In option, the unit is fitted with reinforced Electromagnetic Compatibility according to MIL STD 461. The MIL SPEC SC20 is certified according to MIL STD 461.

POWER OUTPUT: The power quality complies to all applicable standards, including MIL STD 704E, SAE ARP 5015, and complies with all aircraft requirement.

Specifications

		SC20
INPUT	Voltage	400V 3 Phases + earth (neutral not used) (+/- 10%) 50 or 60 Hz (other voltages available in option)
	Current	48 A at 400V/50Hz for 600 A/28VDC output
OUTPUT	Voltage	28VDC - adjustable from 20 to 32VDC for test purposes at rated current with configurable output current limit
	Current	600 A continuously - 2000 A/20V peak
	Performance	Voltage ripple at 450 A 28VDC < 0.5V RMS
DIMENSIONS AND WEIGHTS	Weight L x W x H	440kg with 10 meters length cables 1690x956x1191 mm
OPERATING CONDITIONS	Temperature	-20°C to +45°C

AIRCRAFT COMPATIBILITY

- Air transportable
- Can be loaded on CN235

SAFETY FEATURES

- Over/Under voltage
- Output overloads
- Input electrical failures (U, f)

MAIN CHARACTERISTICS AND OPERATIONS

- Interlock according to EN 12312-20
- Brakes applied when tow-bar is raised or lowered
- 28VDC cable with standard STANAG 3302/ISO 461 plug
- Cable storage roof basket (on top of unit)
- Standard operating temperature: -30°C to +55°C
- Indoor or outdoor operation
- Galvanized steel chassis
- Color: white RAL9010
- Noise level: 65 dB (A) at 1 meter distance