

# SOLID STATE POWER SUPPLIES FC SERIES



Standard Case



Optional Case

## TECHNICAL SPECIFICATION

### 1. INPUT DATA

- Rated voltage: : 3 x 400V +-15% (L1-L2-L3)
- Frequency: : 45 - 55Hz +-5%
- Power factor : 0.94
- Total Current Harmonic Distortion : 30% standard (10% as option)
- Inrush current : absent

### 2. OUTPUT DATA

- Rated power (cos phi=0,8) : 10, 15, 20, 30, 40 kVA
- Rated voltage : 400 / 230V 4w (L1-L2-L3, N)
- Frequency : 400 - 800 Hz adjustable
- Power factor : Frequency fine regulation (potentiometer)
- Waveform : ind./cap.
- Total Harmonic Distortion (linear load) : sinusoidal
- Voltage regulation : 3%
- Voltage regulation : ± 10%
- Voltage regulation : Voltage fine regulation (potentiometer)
- Voltage transient (for load step 0-100% and back): : ± 8%
- Recovery time : 2 msec.
- Overload 10 minutes : 1.25 of full load
- Overload 1 minute : 1.5 of full load
- Overload 10 seconds : 2 of full load
- Voltage symmetry with balanced load : ± 1%
- Voltage symmetry with 30% unbalanced load : ± 2%

### 3. SYSTEM PARAMETERS

- Dimensions ( Width x Depth x Height mm) : not defined
- Weight (kg) : not defined
- Efficiency : >90%
- Audible noise : 68dBA
- Operating temperature : -25°C to +50°C
- Relative humidity ( non-condensing) : 0 to 95%
- Altitude without derating : 1000m msl
- Enclosure: : IP 20
- Cooling: : forced air

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### 4. STANDARDS

CE compliant.

ISO 6858

EN 2282

: Ground support electrical supplies

: Characteristics of aircraft electrical supplies –  
General requirements

MIL-STD-704E

EN50091-1

EN 61000-6-2

EN 61000-6-4

: Electromagnetic compatibility. Emission

: Electromagnetic compatibility. Immunity.

### 5. BREAKERS, OPERATOR CONTROLS, MEASURES, INDICATORS

- Input circuit breaker (door interlocked)

- Output switch

- ON/OFF switch operator

- Measures:

: output voltage

: output current

: output frequency

-Indicators:

: frequency converter running

: frequency converter alarm

- Remote control

: ON/OFF Converter

### 6. AVAILABLE OPTIONS

Input Voltage

Output voltage

IP54

IP 55

Extended temperature range

: from -40°C to +50°C

Output contactor

Drop line compensation

Remote Voltage control for very long lines

Distribution Cabinet

Drop line compensator cabinet.

Mobile Version

Under Bridge version