

400Hz SOLID STATE POWER SUPPLIES FC SERIES



Single unit



parallel application

TECHNICAL SPECIFICATION

1. INPUT DATA

- Rated voltage:	: 3 x 400V +-15%
- Frequency:	: 50/60Hz +-5%
- Input current at full load	: see table
- 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)	: see table
- Rated voltage	: 200/115V 4w
- Frequency	: 400Hz ±0,5%
- Power factor	: ind./cap.
- Waveform	: sinusoidal
- Total Harmonic Distortion (linear load)	: 3%
- Voltage regulation	: ± 1%
- 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)	: see table
- Weight (kg)	: see table
- 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

UPS version

Parallel version

NBPT

Output contactor

Aircraft interlock circuits

Drop line compensation

Remote Voltage control for very long lines

Voltage fine regulation (potentiometer)

Frequency fine regulation (potentiometer)

Distribution Cabinet

Drop line compensator cabinet.

Mobile Version

Under Bridge version

Output 28Vdc voltage

7. PRODUCT RANGE TABLE

Rated power	Input current	Dimensions (H/W/D)	Weight	Order Code
10 kVA / 8 kW	15 A	1.200 x 800 x 600 mm	120 kg	FC01040033
15 kVA / 12 kW	25 A	1.200 x 800 x 600 mm	180 kg	FC01540033
20 kVA / 16 kW	30 A	1.200 x 800 x 600 mm	250 kg	FC02040033
30 kVA / 24 kW	45 A	1.200 x 800 x 600 mm	300 kg	FC03040033
40 kVA / 32 kW	60 A	1.200 x 800 x 600 mm	400 kg	FC04040033
60 kVA / 48 kW	90 A	1.800 x 800 x 600 mm	550 kg	FC06040033
90 kVA / 64 kW	135 A	1.800 x 800 x 600 mm	700 kg	FC09040033
120 kVA / 96 kW	180 A	1.800 x 1.200 x 600 mm	900 kg	FC12040033
150 kVA / 120 kW	225 A	1.800 x 1.200 x 600 mm	950 kg	FC15040033
180 kVA / 144 kW	270 A	1.800 x 1.200 x 600 mm	1.300 kg	FC18040033
270 kVA / 216 kW	405 A	1.850 x 1.500 x 950 mm	2.170 kg	FC27040033
315 kVA / 252 kW	472 A	1.850 x 1.500 x 950 mm	2.250 kg	FC31540033