



Static frequency converters, SHT FC series, are outcome of a long experience both in UPS and in frequency converters field. To complete our apparatus series for airfield applications, constant current regulators for lighting system and 28.5vdc feeder for the engine starter are available. All of our equipments distinguish themselves by the employment of advanced technological components, excellent reliability and easy maintenance. The simplicity of working is the main feature of all of our products.

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 (cosphi=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 (kgs)	: 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

4. STANDARDS

CE compliant.

ISO 6858: Ground support electrical supplies

EN 2282: Characteristics of aircraft electrical supplies – General requirements

MIL-STD-704E

EN50091-1

EN 61000-6-2: Electromagnetic compatibility. Emission

EN 61000-6-4: 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

Rated power	Input current	Dimensions	Weight
5kVA/4kW	7.5 A	400x700x700mm	100kgs
7.5kVA/6kW	11.25 A	400x700x700mm	110kgs
10kVA/8kW	15 A	400x700x700mm	120kgs
12.5kVA/10kW	18.5 A	400x700x700mm	150kgs
15kVA/12kW	22.5 A	400x700x700mm	180kgs
20kVA/16kW	30 A	600x800x1200mm	250kgs
25kVA/20kW	37.5 A	600x800x1200mm	270kgs
30kVA/24kW	45 A	600x800x1200mm	300kgs
40kVA/32kW	60 A	800x600x1500mm	400kgs
45kVA/36kW	67.5 A	800x600x1500mm	450kgs
60kVA/48kW	90 A	1200x600x1500mm	550kgs
80kVA/64kW	120 A	1200x600x1800mm	650kgs
90kVA/72kW	135 A	1200x600x1800mm	700kgs
120kVA/96kW	180 A	1200x600x1800mm	900kgs
150kVA/120kW	225 A	1200x600x1800mm	950kgs
180kVA/144kW	270 A	1200x600x1800mm	1300kgs
270kVA/216kW	405 A	1500x950x1850mm	2170kgs
315kVA/252kW	472 A	1500x950x1850mm	2250kgs