

SFC 4000 - Technical Specifications

INPUT:

- Input Voltage..... 1-phase 230V +/-15%, (115V to order)
- Input Frequency..... 50 or 60Hz, +/- 6%
- Input Current Harmonics..... IEC 1000-3-4
- Input Power Factor..... >0.98
- Rectifier Inrush..... 10 second walk-in, max current < In x 1.2
- Input Connections..... Lead and sockets or hard wire
- Input Protection..... Circuit breaker, rear panel

OUTPUT:

- Output Voltage..... 115/200V or 120/208V, 3 phase + N
- Output Voltage Regulation..... Steady-state: +/-2%, dynamic 0-100% step load: +/-5% recovering to steady-state within 10mS
- Variable Voltage Option..... Front panel knob gives +/- 15% variation
- Total Harmonic Distortion..... <3% linear load
- Output Frequency..... 400Hz +/- 0.1%, quartz generated
- Variable Frequency Option..... Front panel knob gives +/- 5% variation
- Output Phase Angle Accuracy..... 120 deg. +/- 1%
- Permissible Load Power Factor..... -0.6 to 1

SECURITY:

- Permissible Overload..... 10% @ 10 min, 50% @ 10 s, 150% @ 1 s
- Output Overvoltage Cutout..... 130V L-N on any one phase
- Output Undervoltage Cutout..... 100V L-N on any one phase
- Thermal Overload..... Thermal sensors located in rectifier, inverter and output transformer

ENVIRONMENT & EQUIPMENT:

- Ambient Temperature Range..... -10 to 40 deg C
- Humidity..... <90%, non-condensing
- Altitude..... All specifications quoted at < 2000m above sea level
- Acoustic Noise..... < 48dBA @ 1m
- Overall Efficiency..... 85 to 91% model dependant
- EMC..... Better than EN55-022B
- Cabinet..... Zinc plated steel, powder coated RAL 7032
- Cabinet Protection..... IP21
- Meters..... Digital readout for output Amps, Volts, Hz, Kw, Power Factor & KVA, for each phase
- Wheels..... 60mm nylon, front brakes

DIMENSIONS:

- H385 W300 D510mm
- Weight: 2.5Kva (SFC 4002) - 32Kg, 4Kva (SFC 4004) - 37Kg

OPTIONS:

- In standard format both models have fixed output voltage and frequency. Variable output voltage and frequency must be ordered together as an option. PLC control must also be ordered as an option.
- Special output voltages are available, such as 67/115V or 254/440V for example.

Manufacture:

- This equipment is manufactured in the UK.

