19" Rack 400Hz Static Frequency Converters (GPUs) SFC 3000 Series



- Models from 1.5 to 4KVA
- Single Phase or 3-Phase Outputs
- Power factor corrected input (PFC)
- Sinusoidal, Galvanically Isolated Output
- Comprehensive Digital Output Display
- Low Acoustic Noise
- Robust IGBT Inverter Section
- Military Variants Available
- Def-Stan 61-5(4), Stanag 1008

Cost-Effective, Compact and Dependable:

SFC 3000 series static frequency converters offer the most cost-effective and flexible way of providing 400Hz for 19" rack-mount installations. By using the most advanced electronic design, SFC 3000 models are not only remarkably compact for their respective power ratings but also extremely quiet. This means that personnel may work in close proximity to them without the tiring noise normally associated with 400Hz converters.

Unity Input Power Factor:

An advanced front-end design ensures that the input power factor to all models is near unity. This means that there are almost no rejected harmonics, input power consumption is minimised and overall converter efficiency is maximised.

Simplicity in Operation

'Two button' operation means minimal Operator training. No special set-up is required.

Powertek Power Converter Converter Healthy Overhoad Fault Static Converter Off (Together) Inhibit (Interlock)

The optional LCD readout provides extensive information

.....Yet Sophistication in Display:

An accurate digital readout makes all major parameters available for review - these include output Voltage, Amps, Kw, Kva, Hz and power factor. Each may be displayed either for all three phases or several parameters for one particular phase.

28VDC Output Option:

All models may be ordered with an additional 28VDC output (up to 50 Amps). This may be supplied to be used either concurrently with the 400Hz output or independently.

Applications:

SFC 3000 series machines are suitable for static installations within plant rooms, hangars, workshops and laboratories. They should be installed within a standard 19" cabinet, which should have adequate cooling arrangements (normally forced).

High MTBF, Low MTTR:

An oversized rectifier and robust IGBT based inverter offer high reliability, while modular construction and a simple lay-out means that access for maintenance and repair is very straight forward.

Technical Specification:

See overleaf.



SFC 3000 - Technical Specifications

INPUT:

•	Input Voltage	230V, 1ph (2 & 4kVA only) or 400V, 3ph +/- 10%
	Input Frequency	
	Input Current Harmonics	
•	Input Power Factor	>0.98
	Rectifier Inrush	
•	Input Connections	Hard wire or EN60309/2 connectors
	Input Protection	Circuit breaker rear panel

OUTPUT:

•	Output Voltage	115/200V	or 120/208V	3-Phase + N
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- Total Harmonic Distortion.....
 <3% linear load
- Output Phase Angle Accuracy...... 120 deg. +/- 1%
- Permissible Load Power Factor..... -0.6 to 1
- Output is galvanically isolated from input the output neutral may be bonded to earth.

SECURITY:

- Output Overvoltage Cutout......130V L-N on any one phase
- Thermal Overload...... Thermal sensors located in rectifier, inverter and output transformer.

INTERFACE:

 Optional RS485 or RS422 MODBUS high speed communications port allows the output parameters of the converter to be remotely monitored.

ENVIRONMENT & EQUIPMENT:

•	Ambient	Temperature Range	-1(0 1	to 4	40 (deg	С	
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- Humidity.....
 <90%, non-condensing
- Acoustic Noise.....
 < 50dBA @ 1m
- EMC...... Better than EN55-022B
- Cabinet Protection..... IP21
- CE marked

DIMENSIONS:

OPTIONS:

- Other input and output voltages and frequencies
- Military variants
- Marine variants

Model	3001	3002	3004	3006
Power	1.5KVA	2.5KVA	4KVA	6KVA
Weight Kg	18	23	29	Contact