

# SFC SERIES



## 500VA FREQUENCY CONVERTER WITH SINE WAVE OUTPUT SFC500 SERIES



- Compact size, light weight
- Sinusoidal wave shape
- 500VA of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology

The SFC 500 Series compact AC/AC Frequency Converter utilizes well established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC 500 features full electronic protection, high efficiency and low output noise. The 500VA converter is cooled by a built-in fan. Extended operating temperature (-40 to +65°C) is available.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48 ... 410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115VAC/4.4A continuous or  
230VAC/2.2A continuous at  
50, 60 or 400Hz with grounded  
neutral.

Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form:**

Sinusoidal

**Total Harmonic Distortion**

Less than 5% at full load

**Line Regulation**

Maximum 0.5% maximum

**Load Regulation**

Maximum  $\pm 2\%$  from no load  
to full load.

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Efficiency**

Min 78% at full load

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Dimensions**

5" x 5.3" x 15.5" enclosed case  
(WxHxL)

**Connections**

Input: Compression-type terminal  
Output: Standard AC receptacle

**Weight**

9 pounds (4.kg)

# SFC SERIES



## 1000VA FREQUENCY CONVERTER WITH SINE WAVE OUTPUT SFC 1000 SERIES



- Compact size, light weight
- Sinusoidal wave shape
- 1000VA of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology

The SFC1000 Series is a highly compact AC/AC frequency converter. Suitable for a wide range of applications, the SFC1000 features full electronic protection, high efficiency and low output noise. Well established design techniques are used to ensure high reliability. The 1000VA converter is cooled by a built-in fan. Extended operating temperature (-40 to +65°C) is available.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48 ... 410 Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115V/8.7A continuous or  
230V/4.3A continuous at  
50, 60, or 400Hz with grounded  
neutral.

Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form:**

Sinusoidal

**Total Harmonic Distortion**

Less than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum +/-2% from no load  
to full load

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Dimensions**

5.3" x 7.5" x 15.5" enclosed case  
(H x W x L)

**Connections**

Input: Compression-type terminal  
Output: Standard AC receptacle

**Weight**

13 pounds (5.9 kg)

## TELECOM QUALITY 1500VA FREQUENCY CONVERTER SFC 1500 SERIES



- Modular design, light weight
- Sinusoidal wave shape
- 1500VA output power
- Full electronic protection
- Field-proven design topology

The SFC1500 Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC1500 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115VAC/13A continuous or  
230VAC/6.5A continuous at  
50, 60 or 400Hz with grounded  
neutral.  
Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**

Sinusoidal

**Total Harmonic Distortion**

Less than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum +/-2% from no load  
to full load

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C. Extended range  
available. Consult factory.

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Humidity**

5 - 95% non-condensing

**Dimensions**

16.75" x 5.3" X 13.8"  
(W x H x D) enclosed case

**Connections**

Input: Compression-type terminal  
Output: Standard AC receptacle

**Weight**

25 pounds (11.35 kg)

**Options:**

Output Fail Alarm (Form C)  
Remote Inhibit: By connecting  
DC voltage (as specified) to the  
inhibit terminals

## TELECOM QUALITY 2000VA FREQUENCY CONVERTER SFC 2000 SERIES



- Modular design, light weight
- Sinusoidal wave shape
- 2000VA output power
- Full electronic protection
- Field-proven design topology

The SFC 2000 Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC2000 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115VAC/17.3A continuous or  
230VAC/8.6A continuous at  
50, 60, or 400Hz with grounded  
neutral.

Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**

Sinusoidal

**Total Harmonic Distortion**

Better than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum  $\pm$  2% from no load  
to full load.

**Output Protection**

Current limiting with short circuit  
protection

Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C. Extended range  
available. Consult factory.

**Humidity**

5 - 95% non-condensing

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Dimensions**

4U" x 19" x 15" enclosed case (H  
x W x L)

**Connections**

Input/output: Terminal block

**Weight**

40 pounds (18.2 kg)

**Options:**

Output Fail Alarm (Form C)  
Remote Inhibit: By connecting  
DC voltage (as specified) to the  
inhibit terminals

# SFC SERIES



## TELECOM QUALITY 2000VA FREQUENCY CONVERTER SFC2K SERIES



- Modular design, light weight
- Sinusoidal wave shape
- 2000VA output power
- Full electronic protection
- Field-proven design topology

The SFC-2K Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC-2K features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115VAC/17.3A continuous or  
230VAC/5.6A continuous at  
50, 60 or 400Hz with grounded  
neutral.  
Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**

Sinusoidal

**Total Harmonic Distortion**

Less than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum +/-2% from no load  
to full load

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C. Extended range  
available. Consult factory.

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Humidity**

5 - 95% non-condensing

**Dimensions**

16.75" x 5.3" X 13.8"  
(W x H x D) enclosed case

**Connections**

Input: Compression-type terminal  
Output: Standard AC receptacle

**Weight**

25 pounds (11.35 kg)

**Options:**

Output Fail Alarm (Form C)  
Remote Inhibit: By connecting  
DC voltage (as specified) to the  
inhibit terminals

## TELECOM QUALITY 2500VA FREQUENCY CONVERTER SFC 2500 SERIES

- Modular design, light weight
- Sinusoidal wave shape
- 2500VA output power
- Full electronic protection
- Field-proven design topology



The SFC 2500 Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC2500 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class B  
(typical)

**Output Voltage**

115VAC/21.7A continuous or  
230VAC/10.8A continuous at  
50, 60, or 400Hz with grounded  
neutral.

Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**

Sinusoidal

**Total Harmonic Distortion**

Better than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum +/-2% from no load  
to full load

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C. Extended range  
available. Consult factory.

**Humidity**

5 - 95% non-condensing

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Dimensions**

6U" X 19" x 15" enclosed case  
(H x W x L)

**Connections**

Input/output: Terminal block

**Weight**

48 pounds (21.8 kg)

**Options:**

Output Fail Alarm (Form C)  
Remote Inhibit: By connecting  
DC voltage (as specified) to the  
inhibit terminals

## TELECOM QUALITY 3000VA FREQUENCY CONVERTER SFC 3000 SERIES

- Modular design, light weight
- Sinusoidal wave shape
- 3000VA output power
- Full electronic protection
- Field-proven design topology



The SFC 3000 Series is a compact AC/AC frequency converter which uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC 3000 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**  
115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**  
Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**  
Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**  
EN 55022 Class B  
(typical)

**Output Voltage**  
115VAC/26A continuous or  
230VAC/13A continuous at  
50, 60 or 400Hz with grounded  
neutral.  
Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**  
Sinusoidal

**Total Harmonic Distortion**  
Less than 5% at full load

**Line Regulation**  
Maximum 0.5%

**Load Regulation**  
Maximum +/-2% from no load  
to full load

**Output Protection**  
Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Efficiency**  
Min 78% at full load

**Load Crest Factor**  
Maximum 3.0 at 90% load

**Operating Temperature Range**  
0° C to +50° C. Extended range  
available. Consult factory

**Temperature Drift**  
0.05% per °C over operating  
temperature range

**Humidity**  
5 - 95% non-condensing

**Dimensions**  
6U x 19" x 15"

**Connections**  
Input/output: Terminal block

**Weight**  
48lb (21.8 kg)

**Options:**  
Output Fail Alarm (Form C)  
Remote Inhibit: By connecting  
DC voltage (as specified) to the  
inhibit terminals

# SFC SERIES



## TELECOM QUALITY 5000VA FREQUENCY CONVERTER SFC 5000 SERIES



- Modular design
- Sinusoidal wave shape
- 5000VA output power
- Full electronic protection
- Field-proven design topology
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The SFC 5000 Series AC/AC frequency converter uses established design techniques to ensure high reliability. Suitable for a wide range of applications, the SFC 5000 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Extended operating temperature (-40 to +65°C) is available. The converter can be loaded with a fluorescent lamp load up to the full specified output power.

### SPECIFICATIONS

**Input Voltage**

115 or 230VAC, 48...410Hz  
+/-20% are standard  
Consult factory for other inputs

**Input Protection**

Thermal fuse  
Inrush current limiting  
Reverse polarity protection

**Standards**

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

**EMI**

EN 55022 Class A.  
Custom filtering is available  
as an option

**Output Voltage**

115VAC/43.4A continuous or  
230VAC/21.7A continuous at  
50, 60 or 400Hz with grounded  
neutral.

Isolated floating output optional.  
Consult factory for other output  
requirements

**Wave Form**

Sinusoidal

**Total Harmonic Distortion**

Less than 5% at full load

**Efficiency**

Min 78% at full load

**Line Regulation**

Maximum 0.5%

**Load Regulation**

Maximum +/-6% from 10% load  
to full load

**Output Protection**

Current limiting with short circuit  
protection  
Thermal shutdown with automatic  
recovery in case of continuous  
overload or insufficient airflow

**Load Crest Factor**

Maximum 3.0 at 90% load

**Operating Temperature Range**

0°C to +50°C. Extended range  
available. Consult factory.

**Temperature Drift**

0.05% per °C over operating  
temperature range

**Humidity**

5 - 95% non-condensing

**Dimensions**

8U x 19" x 17"

**Connections**

Input: Compression-type terminal  
Output: Terminal block

**Weight**

70 pounds (31.8 kg)