

APS-FC

Frequency Converter Industrial Grade
10-200kVA Single and Three Phase



ABOUT PRODUCT

The APS- FC Series are supplied in both a single or three phase format. The frequency converters PWM controlled, IGBT technology and system is controlled from a microprocessor. The term frequency changer or frequency converter refers to an electronic device that converts alternating current (AC) of one frequency to alternating current of another frequency. The device may also change the voltage, but if it does, that is incidental to its principal purpose.

PRODUCT PERFORMANCE

The APS frequency converter is a state of technology used in predominantly in the military sector but has found uses in laboratory environments and other critical related applications. The system integrates both high frequency switching technology with an output control transformer to offer frequency and voltage control to your load. For guaranteed stable frequency, this technology ensures peace of mind and maximum protection regarding your desired output supply.

MAIN FEATURES

- LCD alphanumeric front panel
- 2 microcontrollers
- 128 event records with RTC
- Clock and calendar (battery supported)
- Remote control from RS232 port
- Custom input voltage and frequency ranges
- Three phase or Single phase options
- SNMP communication
- 2 years warranty
- 10 years spare parts support
- 50 Hertz in / 60 Hertz out
- 60 Hertz in / 50 Hertz out
- 50 Hertz in / 400 Hertz out
- 60 Hertz in / 400 Hertz out





TECHNICAL SPECIFICATIONS

Voltage	230/400 Vac Single Phase and Three Phase
Frequency	See model Selection Table
Voltage THD	< 10%
EM I	EN50091-2 Class A
Protections	Input fuse, low/ high voltage alarm
Output	
Power kVA	2-200kVA range
Power Factor	Standard 0.8 or special product
Voltage/ Frequency	See model Selection Table
Frequency Tolerance %	est 0.2%
Protections	Overload, short circuit, low/ high voltage alarm
Crest Factor	3:01
Overload	100-125% for 10 mins, 125-150% 1min, > 150% output inhibit
THD (full load)	<3%
General	
Human Interface	Alphanumeric LCD panel, mimic lamps, control buttons
Parallel	Available as option
Alarm Memory	128 events, 4000 alarms with time and date
Clock and calendar	Standard
Communication	RS232 serial port
Protections	Over-temperature and overload protection
Ambient Temperature	0-40 C
Protection Degree	IP20
Humidity/ altitude	90% (non-condensed)/ <1000m above sea level

Model Selection Table	
Input	50 or 60Hz
Output	50 or 60Hz or 400Hz

Why We Need to Use a Frequency Converter ?

Your national electricity voltage and frequency is not suitable for your equipment and in this case you need a frequency and voltage changer device. Transformers can change only voltage not the frequency. Common frequency ranges are 50 Hertz, 60 Hertz and 400 Hertz value