

# Frequency converter FU

Highly reliable switch-mode converter



Frequency converter FU AC1000

## Highlights

- | P out: up to 3500 VA
- | Standalone unit
- | Rear side connectivity
- | Fault tolerant software
- | Galvanic isolation between source and load
- | Ultra highly reliable power supply unit
- | Wide temperature range of operation

# ROBUST. SECURE. CONVENTIONAL.

FU – designed and developed for applications in the area of Defense.

### Performance

FU series is a switch mode frequency converter characterized by its high power density coefficient. Depending on the output power, the system is available also in a modular structure, thus achieving exceptionally high reliability and availability. Typical application area for the frequency converters is Defense.

### Simplicity

Easily done. Setting up and controlling via 2 buttons beside the display.

### Reliability

Tested functionality under harshest conditions. Ambient temperature - up to 80°C.

### Intelligence

The frequency converter is equipped with microprocessor for monitoring and control.

### Monitoring and control

Communication via HTTP, SNMP. Integrated web server and IPS' global cloud monitoring.

### Features

- Fan speed regulation
- Digital, light and sound signaling
- Protection against short circuit
- Temperature protection
- Source and load protection
- Galvanic isolation between the input and the output

## Technical data

### Frequency converter FU series

Input (AC)	
Voltage	230 V
Frequency	50 Hz, 60 Hz
Output (AC)	
Voltage	230 V
Frequency	60 Hz, 400 Hz
Power, maximum	3500 VA
Other specifications	
Main functions and features	Converting a source of alternating current (AC) from one frequency to another, where the output frequency is higher than the input frequency Galvanic isolation between the source and the load Fan speed regulation Digital, light and sound signaling Monitoring and control of the input and output voltage, output current, temperature of the converter and other parameters
Protections	Source and load protection Protection against overload and short circuit at the output Protection against high temperature
Mounting option	Standalone
Operating conditions	
Ambient temperature	-40°C ... +80°C
Operating altitude	≤ 3000 m a.s.l.

#### Modular system example: FMU AC105

Total power: 108 kW

Total height: 42U

- **PDU – Power Distribution Unit: 7U**  
- MCU – Monitoring and Control Unit
- **Converter modules: 35U**  
- 9 x FMU M12



*Frequency converter FMU AC108, height 42U*