



Smart 230V AC power supply systems are designed for low power AC loads. These are small systems (19", up to 2U) with power up to 5kVA and simple and fast installation.

GENERAL DESCRIPTION

FAH 48/230-1.0kVA is a standalone compact inverter providing a pure sine wave to 230VAC loads up to 1kVA. It provides uninterruptible supply of critical AC loads within the designed autonomy.

In conjunction with a DC Power system, it provides an excellent AC backup solution. It uses the latest inverter technology, providing improved energy efficiency in a compact size.

APPLICATION

- power systems for telecommunication
- power systems for data centers

KEY FEATURES

- ✓ Compact design: 1U, 19"
- ✓ Short depth allows installation in 300mm rack
- ✓ Front Terminal - terminals and connectors are located on the front panel
- ✓ Uninterruptible supply of the 230VAC critical loads in cooperation with the battery
- ✓ The voltage supplied to the loads is a pure sine wave despite all the typical disturbances (harmonics, surges, noise) contributed by the AC mains
- ✓ Simple installation and intuitive operation
- ✓ High efficiency (91% peak)
- ✓ Wide acceptable range of the loads power factor
- ✓ Wide operating temperature range



TECHNICAL SPECIFICATION

DC input

Rated voltage	VDC	48
The range of phase input voltage	VDC	40 ÷ 60
Rated current	ADC	19
Maximum current (15s)	ADC	28 A / 2 mV psopho @ 48 V - 80% LOAD

AC output

Rated voltage	VAC	230
Voltage range	VAC	200÷240
Frequency	Hz	50/60Hz
Frequency accuracy	%	0,1
Rated output current	AAC	4,35 @230VAC Protected against reverse current
Rated output power	VA W	1000 800
Efficiency	%	91 (peak)
THD (resistive load)	%	<3
Overload capacity	%	150% @15s (within the permissible operating temperature)
Turn on delay	s	20
Crest factor	-	2.5 : 1

Control and monitoring

Operation status signaling	LED
Remote control	Infra manager (option) 4DC manager (option)
Alarming, Operation signaling	LED dry contacts
Alarm output	3x dry contacts

Mechanical specifications

Dimensions (H x W x D)	mm	(1U) x 342 x 221
Weight	kg	3
Material (casing)		Coated steel
Cooling	-	forced

Standard equipment

AC output socket protection	1x5A
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Optional equipment

Remote monitoring	Infra Manager 4DC manager
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Environmental specifications

Operating temperature	°C	-20÷65
Relative humidity	%	<95 (non-condensing)
Height	m n.p.m.	<1500 Derating > 1500 m – 0.8 % per 100 m

Design standards

Electrical safety	IEC60950 / IEC 62040-1 ETS 300 386 – 2 : 2mV EN 55022 Class A Radiated and Conducted ETS 300 132 – 2 : Product Standard IEC 61000-3-2 harmonic current class A EN61000-4-2 ESD criteria A - 15 kV Air and 8 kV contact EN61000-4-3 RF Field – Enclosure Port criteria A : 10 V/m EN61000-4-4 Burst - All ports criteria A : 2kV EN61000-4-5 Surge criteria B all ports EN61000-4-6 class A criteria A 10V
EMC	
Environmental	RoHS
MTBF	200 000h