

Power System AMS 230/1000-3 19"

The Power behind.



Main features

- Complete 3 kVA power supply system with static switch
- Manual bypass switch
- Sinusoidal output voltage with low THD
- Fan cooled inverters FI 48 / 230 V – 1000 VA
- Efficiency > 88 %
- Integrated AC load distribution
- Dimensions (h x w x d) 311 x 483 x 430 mm (19", 7 U)

Applications

- Modular UPS configurations
- Indoor and outdoor container
- Telecom, wireless, datacom

Description

The AMS 230/1000-3 19" is a single phase, fan-cooled inverter system with an integrated static switch. The stable construction is based on a sheet metal design with a maximum of 3 parallel connected FI 48 / 230 V – 1000 VA inverters, a static switch and DC- and AC-distribution and provides an easy installation into 19" standard cabinets or to a wall. The outstanding dynamic performance matches the supply requirements for state-of-the-art telecom equipment. These features, as well as the advanced technology, are the key factors of the success of this inverter system and it offers a cost effective and reliable solution.

Modular UPS configurations can be realized in combination with Delta DC power systems with battery backup. The typical applications for this inverter system are both in indoor and outdoor containers, which is a perfect solution for wireless base stations, core network components, telecommunications networks and data networks. The inverter system meets the requirements set by the telecommunications standards.

Power System AMS 230/1000-3 19"

Technical Specifications

General	
Efficiency	≥ 88%
Losses, max.	400 W
Safety	IEC / EN 60 950
EMC	EN 300 386-2
Cooling	Fan cooled inverter Convection cooled SSW
Protection class	IP 20

DC Input	
Voltage, nominal	53.5 V _{DC}
Voltage range	40 ... 72 V _{DC}
Maximum current (60 s)	3 x 26 A _{DC}
Maximum current (3 s)	3 x 47 A _{PEAK}
Connection bus pole	Terminal 35 mm ²
Connection minus pole	Terminal 35 mm ²
Fuse	3 x 32 A (MCB)

AC Input	
Voltage, nominal	230 V _{RMS}
Frequency, nominal	50 Hz
Power, maximum (60 s)	3300 VA
Power, maximum (3 s)	6000 VA
Connections	L + N + PE
Fuse	16 A (MCB)

Output, on line mode	
Voltage, nominal	230 V _{RMS} ± 1%
Frequency, nominal	50 Hz ± 0.05 Hz
Current, nominal	13.2 A _{RMS}
Current, peak limit	36.6 A
Crest factor	2.8
Power, nominal	3000 VA / 2400 W
With redundancy	2000 VA / 1600 W
Power, maximum (60 s)	3300 VA / 2640 W
Power, maximum (3 s)	6000 VA / 4800 W
Power factor	0 ... 1 ind. and cap.
THD, at linear load	< 1 %

Output, off line mode	
Voltage range	ETS 300 132-1
Frequency range	ETS 300 132-1
See static switch leaflet	SSW 230 V – 6 kVA

Configuration	
Operating mode	On line mode Off line mode

Load distribution	
Manual bypass	7 position switch
MCB (DPN)	3 pcs / 1 ... 16 A
Connections	2.5 mm ² (L + N + PE)

Mechanics	
Material	EN 10142 DX51D + Z275MAC
Height, overall	311 mm (7U)
Width, overall	483 mm (19")
Depth, overall	430 mm
Weight, system	19 kg
Weight, inverter	3 x 6 kg
Weight, static switch	3.5 kg

Environment	
Ambient temperature	0 ... +60°C
Red. Peak current limit	+50 ... +60°C
Relative humidity	95% max, non. cond.

User interface	
Signaling	LED
See inverter leaflet	FI 48 / 230 V – 1000 VA
See static switch leaflet	SSW 230 V – 6 kVA

Control and monitoring	
Remote alarm	Potential free contact

Subject to change due to technical progress.