

The power advantage ...

Inverter FI 48 / 230 V - 3000 VA



Features

- High efficiency (88 %)
- Compact (238 VA/l) and light (12 kg)
- All connectors on front panel
- Fan cooled with air flow monitoring
- Universal input for 48 V and 60 V systems
- Overload capability and protections
- Wide $\cos\phi$ range
- Outstanding dynamic performance
- Parallel operation up to 15 inverter modules
- Operating temperature range up to 55°C

Applications

- Indoor and outdoor
- Medium to large AC power systems
- Modular UPS configurations
- Telecom, wireless, datacom

Description

The inverter FI 48 / 230 V - 3000 VA is a single phase, fan-cooled inverter. It converts all direct voltages from 48 and 60 V battery systems to an uninterruptible, stabilised AC voltage of 230 V / 50 Hz. The outstanding dynamic performance matches the supply requirements for state-of-the-art telecom equipment. This performance as well as the advanced technology are the key factors of the success of this inverter and it offers a cost effective and reliable solution.

Modular UPS configurations can be realised in combination with Delta DC power systems with battery backup and static switch products.

The typical applications for this inverter are both in indoor and outdoor environments, which is a perfect solution for wireless base stations, core network components, telecommunications networks and data networks.

The inverter meets the requirements set by the telecommunications standards.

FI 48 / 230 V – 3000 VA: Technical specifications

General

Efficiency, typ	88 %
Losses, max.	360 W
Safety	EN 60 950, class I
EMI, radiated	EN 55 022, class B
Compliant with	EN 300 386-2
Cooling	Fan cooled
Power density	238 VA / l

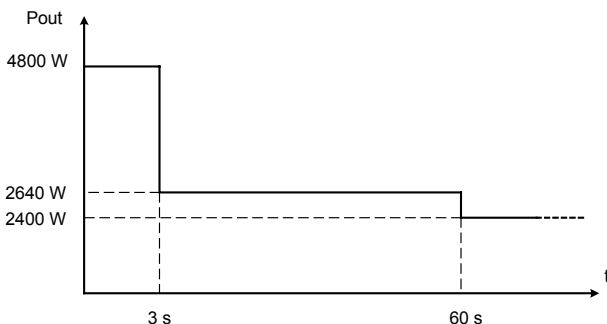
Input

Voltage range	40 ... 72 V _{dc}
Current maximum (60s)	78 A _{dc}
Current maximum (3s)	125 A _{dc}
EMI, conducted	EN 55 022, class B
Input connector	D SUB, front side
Input protection	Ext. fuse / MCB 80 A
Input switch	None

Output

Voltage, nominal	230 V _{rms} ± 1% (1/2 load)
Frequency, nominal	50 Hz ± 0.05 Hz
THD, linear load	< 1%
Voltage error, static	± 2.5 %
Current, nominal	13.3 A _{rms}
Peak current limit	36.6 A _{peak}
Crest factor, maximum	2.8
Power, nominal	3000 VA / 2400 W
Power, maximum (60s)	3300 VA / 2640 W
Power, maximum (3s)	6000 VA / 4800 W
cos φ, range	0 .. 1 ind. and cap.
EMI, conducted	EN 55 022, class B
Output connector	3 pole (L+N+PE), front
Output protection	Internal fuses 20 A (L+N) Internal relay (L only)

Output characteristic:



User interface

Output power display	LED bar
Status indication	LED «ok» LED «system config» Status «redundancy»

Power system controller

Alarm signals	Inverter fail alarm
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Mechanics

Width, overall	135 mm
Depth, overall	385 mm
Height, body	266 mm
Height, front panel	311 mm
Weight	12 kg

Environment

Ambient temperature	0 ... + 55 °C
Red. peak current limit	+ 50 ... + 55 °C
Relative humidity	95 % max, non cond.

Accessories

INVBUSD	P/N: D0005980
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Static switch products

SSW 230 V – 6 kVA	P/N: D0006119
SSW 230 V – 20 kVA	P/N: D0100400

Subject to change due to technical progress