

# Inverter FI 48 / 230 V - 3000 VA

The Power behind.



## Main 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
- Small to medium 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 direct voltages 48...60 V from battery systems to an uninterruptible, stabilised AC voltage of 230 V / 50 Hz. The outstanding dynamic performance matches the requirements for state-of-the-art telecom equipment. This performance and the advanced technology are the key factors of the success of this inverter. It offers cost effective and reliable solutions. Modular UPS configurations can be realised in combination with Delta DC power systems with battery backup and static switch products. Typical applications are both in indoor and outdoor environments, which is a perfect solution for base stations, core network components, telecommunication and data networks. The inverter meets the requirements set by the telecommunications standards.



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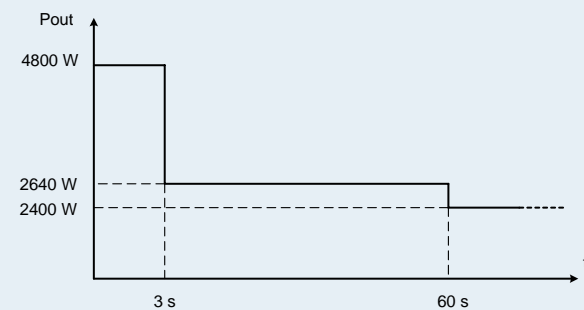
## Technical Specifications

| General        |                    |
|----------------|--------------------|
| Efficiency     | > 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 <sub>dc</sub>      |
| Current maximum (60s) | 78 A <sub>dc</sub>             |
| Current maximum (3s)  | 125 A <sub>dc</sub>            |
| EMI, conducted        | EN 55 022, class B             |
| Input connector       | D SUB, front side              |
| Input protection      | External protection / MCB 80 A |
| Input switch          | None                           |

| Output                |  |
|-----------------------|--|
| Voltage, nominal      | 230 V <sub>rms</sub> ± 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 <sub>rms</sub>                          |
| Peak current limit    | 36.6 A <sub>peak</sub>                         |
| 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 fuse 20 A (L+N)<br>Internal relay (L) |

Output characteristic:



| User interface       |  |
|----------------------|--|
| Output power display | LED bar  |
| Status indication    | LED «ok»<br>LED «system config»<br>Status «redundancy» |

| Power system controller |                     |
|-------------------------|---------------------|
| Alarm signals           | Inverter fail alarm |

| Mechanics           |        |
|---------------------|--------|
| Height, body        | 266 mm |
| Height, front panel | 311 mm |
| Width, overall      | 135 mm |
| Depth, overall      | 385 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 |

| 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.