

The INV Series...

Inverter INV 48/230 V - 3000 VA

- High efficiency system (88%)
- Compact and lightweight
- All connectors on front panel
- Fan cooled inverters with air flow monitoring
- Universal input for 48V and 60V systems
- Overload capability and protections
- Wide power factor range
- Outstanding dynamic performance
- Parallel operation up to 15 inverters modules
- Operating temperature range up to 55°C

Applications

- Indoor and Outdoor
- Small to medium AC power systems
- Modular UPS configuration
- Telecom, wireless, datacom

Description

The inverter INV 48/230V-3000VA is single phase, fan-cooled inverter. It converts all direct voltages from 48...60 V battery systems to an uninterruptible, stabilized AC voltage of 230V/50Hz. The outstanding dynamic performance matches the supply requirements for state-of-the-art telecom equipment. This performance as well as the advanced technology is the key factors of the success of this inverter and it offers a cost effective and reliable solution. Modular UPS configurations can be realized in combination with PCE DC power systems with battery back up and static switch products. Typical applications for PCE inverter are both in indoor and outdoor environments, which is a perfect solution for wireless base stations, core network components, telecommunication and data networks. The inverter meets the requirements set by the telecommunications standards.



www.pceups.com

General

Efficiency, at 220Vrms	>88%
Losses, max	360 W
Safety	EN 60950, class I
EMI, radiated	EN 55022, class B
Compliant with	EN 300 386-2
Cooling	Fan cooled
Power density	238 VA / l

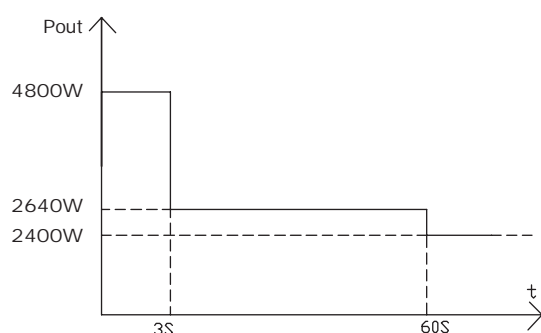
Input

Voltage range	40...72 Vdc
Current maximum (60s)	78 Adc
Current maximum (3s)	125 Adc
EMI, conducted	EN 55022, class B
Input connector	D SUB, front side
Input protection	External protection/ MCB 80 A
Input switch	None

Output

Voltage, nominal	230 Vrms $\pm 1\%$ (1/2 load)
Frequency, nominal	50 Hz ± 0.05 Hz
THD, linear load	<1%
Voltage error, static	$\pm 2.5\%$
Current, nominal	13.3 Arms
Peak current limit	36.6 A _{peak}
Crest factor, maximum	2.8
Power, nominal	3000VA/ 2400W
Power, maximum (60s)	3300VA/ 2640W
Power, maximum (3s)	6000VA/ 4800W
Cos ϕ , range	0..1 ind. and cap.
EMI, conducted	EN 55022, class B
Output connector	3 pole (L+N+PE), front
Output protection	Internal fuse 20 A (L+N) Internal relay (L)

Output characteristic:



User Interface

Output power display	LED Bar
Staus indication	LED <<OK>> LED <<system config>> Status <<redundancy>>

Power system controller

Alarm signals	Inverter fail alarm
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Mechanics

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

Environment

Operating temperature	0...+55°C
Red. Peak current limit	+50...+55°C
Relative humidity	95% max, non condensing

Accessories

INVBUSD	P/N: D0005980
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Static switch products

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

* Specifications are subject to change due to technical progress

