Inverter system type PCI05
0.5kVA to 4kVA - 230VAC

Inverter system type PCI05 for interconnection with DC system wherever uninterruptible power supply is needed, e.g. for computers and process control.

**Robust design**
Designed for industrial environments where the requirements for security and availability are high.

**Uninterruptible switching**
Switching automatically and uninterruptible to alternative AC network.

**Safe maintenance**
Easy to bypass through the manual bypass switch for uninterrupted isolation during maintenance and service.

**Safe operation and high availability**
We help you with commissioning and service and provide training in the operation and maintenance.

**System monitoring**
Built-in controller that regulate and supervise the system and activate the bypass device that connects the load to the alternate network in case of failure.

**Complete documentation**
Makes design and maintenance efficient and can be delivered in electronic format.
Inverter system type PC105

General
Inverter system PC105 is an inverter system that consists by a controller that controls and monitors the system, a bypass unit that connects the lead to the alternative mains supply in case of failure and one or more inverter modules. The system is built in modules of function devices that are already connected to a system with direct connection to the terminals.

Inverter module
Output power: 0,5kVA–4kVA
Control principle: Sinusoidal, processor controlled
Output stage: IGBT, low impedance

Manual bypass
Type: Contactor
Switch time: <20ms

Electrical connections
DC IN: screw terminal, see table 1
AC OUT: screw terminal, see table 1
AC IN (bypass): screw terminal, see table 1
Alarm: Disconnect terminal blocks, 4 mm²

Output AC
Output voltage: 230VAC ±5%
Frequency: 50/60 Hz
Power factor: 0,8
Crest factor: >2,5
Overload protection: >125% 12 sec., >150% 3 sec.
Efficiency: approx. 88%
Other: See table 1

Environment
Ambient temperature: Operation, -5 to +40 °C
Storage, -40 to +70 °C
Humidity: < 90 % RH, non-condensed
Altitude, a.s.l: < 2000 m

Enclosure
Floor cabinet: F27 with 19" fixed frame work
Wall cabinet: FW12 with 19" fixed frame work
Cable entrance: Above or - below
Size F41 [h/b/d]: 2000 mm/600 mm/400 mm
Size F27 [h/b/d]: 1561 mm/600 mm/600 mm
Size W12 [h/b/d]: 604 mm/600 mm/500 mm
Color: RAL 7035 light grey
Class of enclosure: IP21
Ventilation: Power controlled fans in the inverter modules

Indications
LCD display: Plain text display for status, control and alarm,
LED indicator for output power
Exter alarm signal: Potential free switching contact
Remote communication: Standard RS232 data interface

Option
Input voltage: 115VAC
AC-distribution: Distributions module AC with 9 pce. MCB per module

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>Output Power</th>
<th>Output Power</th>
<th>Maximum Output</th>
<th>Maximum Input</th>
<th>Terminal block capacity</th>
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<tbody>
<tr>
<td>VAc</td>
<td>VA</td>
<td>W</td>
<td>Aec@ 230VAc</td>
<td>Aic</td>
<td>DC in</td>
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<td>min – max</td>
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<td>AC in/out</td>
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<td>24</td>
<td>19-31</td>
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<td>24</td>
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<td>2000 1600</td>
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Table 1, System Ratings. (1* Phoenix Power CombiCon, 6 mm²)