Inverter system type PCI05
0.5kVA to 4kVA - 230V_{AC}

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 safety 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.

www.kraftpowercon.com
Inverter system type PCI05

General
Inverter system PCI05 consists of an inverter module type INVB with built-in controller for control and monitoring of the system and a bypass unit for connection of the load to an external mains supply in case of failure. For safe service and maintenance of the system, isolation can be provided with the manual bypass unit. The system is built in a cubic with connections made directly to terminals.

Inverter module
Output power: 0.5-4 kVA
Control principle: Sinusoidal, processor controlled
Output stage: IGBT, low impedance

Built-in bypass unit
Type: Relay (0.5-2 kVA)
Static switch (4 kVA)
Switching time: <10 ms (0.5-2 kVA)
<4 ms (4 kVA)

Manual bypass
Type: Contactor
Switch time: <20 ms

Electrical connections
DC IN: screw terminal, see table
AC OUT: screw terminal, 16 mm²
AC IN (bypass): screw terminal, 16 mm²
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

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

Indications
Front panel: Plain text display for status, control and alarm,
LED indicator for output power
External alarm: Floating changeover contact
Remote communication: Standard RS232 data interface

Enclosure
Floor cabinet: F27 with 19” fixed frame work
Wall cabinet: FW12 with 19” fixed frame work
Cable entrance, F27: Top or bottom
Cable entrance, FW12: Bottom
Size F27 (h/b/d): 1361 mm/600 mm/600 mm
Size FW12 (h/b/d): 604 mm/600 mm/500 mm
Color: RAL 7035 light grey
Ventilation: Power controlled fans in the inverter modules

Standards
Safety: EN 50178
Galvanic isolation: 3.75 kV DC
EMC, emission: EN 61000-6-3/4
EMC, immunity: EN 61000-6-2
Class of enclosure: EN 60529

Option
Input voltage: 115VAC
AC-distribution: Distribution module with 9 pcs MCB per module

Input voltage V_ac

<table>
<thead>
<tr>
<th>Input voltage V_ac</th>
<th>Output power</th>
<th>Output power</th>
<th>Maximum output current</th>
<th>Maximum output current</th>
<th>Terminal block capacity mm²</th>
<th>Maximum output fuse A</th>
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