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 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 PCI05

General
Inverter system PCI05 is a inverter system that consists by a controller that controls and monitors the system, a bypass unit that connects the load 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.

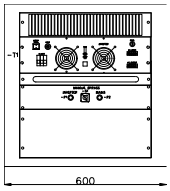
Inverter module
Output power:	0,5kVA-4kVA
Control principle:	Sinusoidal, processor controlled
Output stage:	IGBT, low impedance

Manual bypass
Type:	Contactor
Switch time:	<20ms

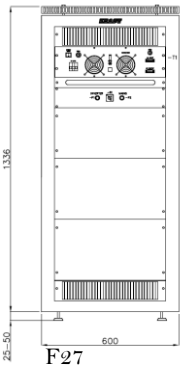
Electrical connections
DC IN:	screw terminal, see table 1
AC OUT:	screw terminal, see table 1
AC IN (bypass):	screw terminal, see table 1
Alarm:	Disconnect terminal blocks, 4 mm²

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



FW12



F27

Indications
LCD display:	Plain text display for status, control and alarm, LED indicator for output power
Extern alarm signal:	Potential free switching 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:	Above or - below
Size F41 (h/b/d):	2000 mm/600 mm/400 mm
Size F27 (h/b/d):	1361 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

Standards
Safety:	EN 60950, VDE 0805
Galvanic isolation:	3.75 kV DC
EMC (emission):	SS-EN 61000-6-3/4
EMC (immunity):	SS-EN 61000-6-2
Class of enclosure IP21:	EN 60529

Option
Input voltage:	$115V_{AC}$
AC-distribution:	Distributions module AC with 9 pce. MCB per module

Input voltage V_{DC}		Output Power VA	Output Power W	Maximum Output current A_{AC} @ 230V_{AC}	Maximum Input current A_{DC}	Terminal block capacity mm²	
nominal	min – max					DC in	AC in/out
24	19-31	500	400	2.1	24	3x16mm²	IEC 320
		1000	800	4.3	48	3x16mm²	IEC 320
		2000	1600	8.7	96	3x16mm²	IEC 320
48/60	38-72	500	400	2.1	12	3x16mm²	IEC 320
		1000	800	4.3	24	3x16mm²	IEC 320
		2000	1600	8.7	48	3x16mm²	IEC 320
		4000	3200	17.4	96	3x16mm²	1*
110	88-132	500	400	2.1	5.3	3x16mm²	IEC 320
		1000	800	4.3	11	3x16mm²	IEC 320
		2000	1600	8.7	21	1*	IEC 320
		4000	3200	17.4	42	3x16mm²	1*
125	88-149	500	400	2.1	5.3	3x16mm²	IEC 320
		1000	800	4.3	11	3x16mm²	IEC 320
		2000	1600	8.7	21	1*	IEC 320
220	178-264	500	400	2.1	2.6	3x16mm²	IEC 320
		1000	800	4.3	5.1	3x16mm²	IEC 320
		2000	1600	8.7	11	1*	IEC 320
		4000	3200	17.4	21	3x16mm²	1*

Table 1, System Ratings. (1* Phoenix Power CombiCon, 4 mm²)

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