

Inverter system 2 - 48 kVA type PCI10



Inverter system type PCI10 for interconnection with DC system wherever uninterruptible power supply is needed, e.g. for computers and process control. The shown system is equipped with auxiliary distribution boards.

- **Modular system** for highly flexible output power and easy service.
- **Automatic and uninterruptible switching** to the mains supply by bypass module.
- **Smooth and safe maintenance** through manual bypass switch for uninterruptible isolation of system.
- **Complete documentation** makes the maintenance and plant revision effective, supplied as printed or in electronic format.
- **Safe operation and high availability** we support you with commissioning and service as well as education in handling and maintenance.
- **World-Class products** Kraftelektronik AB delivers to international leading companies and is approved supplier to nuclear power plants.
- **Our product range for uninterruptible power** also covers complete DC systems, rectifiers, uninterruptible motor drive (UMD), distribution boards and batteries. We support you with design and training

Inverter system 2-48 kVA type PCI10

Technical data

Design	The system consist of modular functional units pre-connected to a system for direct connection to terminals.
Inverter module	Output power 2kVA, 4kVA
Control principle	Sinusoidal, processor controlled
Output stage	IGBT, low impedance
Control unit	Manages up to 12 inverter modules. Records up to 256 events, real time clock Automatic alarm report through modem.
Bypass unit	Static switch for AC network option.
Rated current	120A, 200A
Switching time	Instantaneous
Manual bypass switch	For uninterruptible disconnection and isolation of inverter at service and maintenance.

Ambient temperature	-5 to +45°C non-condensed
Efficiency	> 88% at nominal load

Output AC

Output voltage	230 VAC 50/60 Hz
Volatge regulation	± 5%
Crest factor	> 2.5
Harmonic distortion	< 2%
Overload protection	>150%, 3 sec, 125%, 12 sec

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

Cabinet

	Floor cabinet with 19" combined hinged frame and door
Height	2100 mm
Width	840 mm
Depth	654 mm
Weight	150 kg (8 kVA) 195 kg (20 kVA)
Class of enclosure	IP 21 IP 43, IP54 option
Ventilation	Power controlled fan in modules

Electrical connections

DC IN	screw terminal, see table below
AC OUT	screw terminal, see table below
AC IN (bypass)	screw terminal, see table below
Alarm	Disconnect terminals, 4 mm ²

Indications

Control unit	Clear text display for status, control and alarm
Inverter module	LED indication for output power
External alarm	Potential free switching contact
Remote communication	Standard RS232 data interface

Options

AC-distribution	Distribution module with 9 pcs MCB per module
Expansion slot	Prepared cabling for future extention of inverter modules.

Input voltage Vdc		Output power VA	Output power W	Maximum output current Aac @230V	Maximum input current Adc	Terminal block capacity mm ²	
nominal	min – max					DC in	AC in/out
48/60	38-72	4000	3200	17	96	35	35
		8000	6400	34	191	50	35
		12000	9600	52	287	95	35
		16000	12800	69	383	150	50
		20000	16000	87	478	150	50
110	88-132	4000	3200	17	41	35	35
		8000	6400	34	83	50	35
		12000	9600	52	124	95	35
		16000	12800	69	165	150	50
		20000	16000	87	207	150	50
125	88-149	4000	3200	17	41	35	35
		8000	6400	34	83	50	35
		12000	9600	52	124	95	35
		16000	12800	69	165	150	50
		20000	16000	87	207	150	50
220	178-264	4000	3200	17	20	35	35
		8000	6400	34	41	50	35
		12000	9600	52	61	95	35
		16000	12800	69	82	150	50
		20000	16000	87	102	150	50

