

## Inverter 500-4000VA type INVB



*Inverter type INVB for interconnection with DC system wherever uninterruptible power supply is needed, e.g. for computers and process control. In this picture INVB is mounted in a wall enclosure.*

- **Compact format, low weight and front connections** provide easy installation with minimal space requirements.
- **Robust construction** for industrial environments, vehicle installations and telecommunications.
- **Static switch increases security** through uninterruptible switch for AC network option.
- **Very low noise level** provides pleasant environment characteristics.
- **High efficiency** provides low power dissipation and high exchange of battery capacity.
- **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 500-4000VA type INVB

## Technical data

Control principle	Sinusoidal, processor controlled
Output stage	IGBT, low impedance
Static switch	For AC network option, switch time < 10 ms.
Ambient temperature	-5 to +45°C non-condensed
Efficiency	> 88% at nominal load

## 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

## Output AC

Standard	230 VAC / 50 Hz
Option	115 VAC/ 60 Hz
Voltage regulation:	± 5%

Crest factor	> 2.5
Harmonic distortion	< 2%
Overload protection	155% 2 sec, 102% 30 sec

## Indications

LCD display (500-2000 VA)	2 x 8 signs, status, alarm menu, in / out voltage, output power
LED (4000 VA)	Load current, power, online
External alarm signal	Potential free switching contact

## Operation

Push-button for menu control  
DC input switch.

## Enclosure

Type	Module for 19" rack frame
Height	3 U / 84 TE
Depth, in frame	240mm (500-1000 VA) 360 mm (2000-4000 VA) Handle on front additional 40 mm
Weight	7.5 kg (500-1000 VA) 11 kg (2000 VA) 15 kg (4000 VA)
Class of enclosure	IP 20
Ventilation	Power controlled fan

## Electrical connections

DC IN	See table
AC OUT	See table
AC IN (bypass)	See table
Alarm	Phoenix Mini-CombiCon, 1.5 mm <sup>2</sup> (500-2000 VA) Binder 6-pole connector DIN 45322 (4000 VA)

## Wall enclosure

Option 1	According to the picture on the front page with room for one inverter module. Including manual bypass switch for uninterruptible disconnection of inverter. Terminals for connections to external cabling behind cover panel.
Dimensions	Width 600 mm Height 604 mm (12 U) Depth 500 mm (+40 mm for 4000VA)
Option 2	The above wall enclosure extended with distribution board for 9 pcs MCB
Dimensions	Width 600 mm Height 871 mm (18 U) Depth 500 mm (+40 mm for 4000VA)

Input voltage V <sub>DC</sub>		Output power VA	Output power W	Max output current A <sub>AC</sub> @230V	Max Input current A <sub>DC</sub>	Terminal block capacity mm <sup>2</sup>	
nominal	min – max					DC in	AC in/out
24	19-31	500	400	2.1	24	3x16mm <sup>2</sup>	IEC 320
		1000	800	4.3	48	3x16mm <sup>2</sup>	IEC 320
		2000	1600	8.7	96	3x16mm <sup>2</sup>	IEC 320
48/60	38-72	500	400	2.1	12	3x16mm <sup>2</sup>	IEC 320
		1000	800	4.3	24	3x16mm <sup>2</sup>	IEC 320
		2000	1600	8.7	48	3x16mm <sup>2</sup>	IEC 320
		4000	3200	17.4	96	3x16mm <sup>2</sup>	1*
110	88-132	500	400	2.1	5.3	3x16mm <sup>2</sup>	IEC 320
		1000	800	4.3	11	3x16mm <sup>2</sup>	IEC 320
		2000	1600	8.7	21	1*	IEC 320
		4000	3200	17.4	42	3x16mm <sup>2</sup>	1*
125	88-149	500	400	2.1	5.3	3x16mm <sup>2</sup>	IEC 320
		1000	800	4.3	11	3x16mm <sup>2</sup>	IEC 320
		2000	1600	8.7	21	1*	IEC 320
220	178-264	500	400	2.1	2.6	3x16mm <sup>2</sup>	IEC 320
		1000	800	4.3	5.1	3x16mm <sup>2</sup>	IEC 320
		2000	1600	8.7	11	1*	IEC 320
		4000	3200	17.4	21	3x16mm <sup>2</sup>	1*

1\* Phoenix Power CombiCon, 4 mm<sup>2</sup>

KraftPowercon Sweden AB Phone +46 470-705200  
Hjalmar Petris v. 49 Fax +46 470-705201  
S-352 46 Växjö www.kraftpowercon.com  
Sweden



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