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INV-B

Rackmounting Inverter with Bypass

Description

The INV-B is ideal for ensuring loads are continually supplied in the event of mains failure. This series of inverters are built with integrated static bypass switches. Connected systems are protected from downtime caused by power failures and disturbances. Should the usual AC supply fail the INV-B will automatically switch over to the connected DC Source within 10ms. When the bypass is operated the phase angle of the voltage output is synchronised to the previous sinewave to provide a seamless changeover. Where the mains supply is particularly unreliable the INV-B can be set to permanently operate from the DC supply. The inverter can be manually switched to pass through the AC input when the batteries need to be serviced. The inverter produces a true stabilised sinewave output that is controlled by high quality micro-processors. This ensures the INV-B range is ideal for even the most sensitive loads. These robust units are extremely efficient at converting energy meaning longer autonomy times or smaller battery capacity requirements. The wide operating temperature range and choice of inputs help to ensure that the INV-B is the first choice for the majority of locations.



- Robust IGBT end stage
- Low output impedance
- No 50Hz transformer
- Built-in static bypass
- Efficiency over 88%

Selection Table

Part	Maximum	Input	Output	Output
Number	Power	Voltage	Voltage	Frequency
INV-B 500-24	500VA	24VDC	230VAC	50Hz
INV-B 500-48-60	500VA	48/60VDC	230VAC	50Hz
INV-B 500-110	500VA	110VDC	230VAC	50Hz
INV-B 500-220	500VA	220VDC	230VAC	50Hz
INV-B 1000-24	1000VA	24VDC	230VAC	50Hz
INV-B 1000-48-60	1000VA	48/60VDC	230VAC	50Hz
INV-B 1000-110	1000VA	110VDC	230VAC	50Hz
INV-B 1000-220	1000VA	220VDC	230VAC	50Hz
INV-B 2000-24	2000VA	24VDC	230VAC	50Hz
INV-B 2000-48-60	2000VA	48/60VDC	230VAC	50Hz
INV-B 2000-110	2000VA	110VDC	230VAC	50Hz
INV-B 2000-220	2000VA	220VDC	230VAC	50Hz
INV-B 4000-48-60	4000VA	48/60VDC	230VAC	50Hz
INV-B 4000-110	4000VA	110VDC	230VAC	50Hz
INV-B 4000-220	4000VA	220VDC	230VAC	50Hz

^{*}Different output voltages and frequencies are possible. Please contact ET to discuss your requirements.





INV-B

Rackmounting Inverter with Bypass

Technical Data

Output	INV-B-500	INV-B-1000	INV-B-2000	INV-B-4000		
Output Power	500VA/400W	1kVA/800W	2kVA/1600W	4kVA/3200W		
Voltage		·	6 (Option /1 for 115VAC, 60Hz			
Frequency	50Hz (Option /1 for 115VAC, 60Hz), sinewave processor controlled					
Power Factor	0.8					
Load Range	0 - 100%					
Crestfactor	> 2.5					
Harmonic Distortion	< 2%					
Input Range						
24VDC	24 (19 - 31)VDC					
48/60VDC	48/60 (38 - 72)VDC					
110VDC	110 (88 - 132)VDC					
220VDC	220 (178 - 264)VDC					
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General Electrical Safety		EN COOFO VDE 000E (daad 0 alaaw aiyayit ayaataatad\			
·	EN 60950, VDE 0805 (overload & short-circuit protected)					
Efficiency Galvanic Isolation	>88% at nominal load					
	3.75 kVDC					
EMC (Emission)	EN 50081-1, Curve EN 55022B					
EMC (Immunity)	EN 50082-2					
Operating Temperature	-5 to +45°C (non-condensing)			-5 to +55 °C (non-condensing		
Over-Temperature Derating	+45 to +70°C (2%/K derating) +55 to +70°C (2%/K derating)					
Housing						
Casing		19" rack with mounting flanges				
Size		19" x 3U x 240mm (W x H x D) 19" x 3U x 360		,		
Weight	Approx. 7kg	Approx. 7.5kg	Approx. 11kg	Approx. 15kg		
Classifiaction	IP 20					
Ventilation		Inter	nal fan			
Electrical Connections						
Connector Position	Front of unit (optionally rear of unit)					
DC Input (at 24, 48/60VDC)	3 x high current terminal blocks 16mm²					
DC Input (at 110, 220VDC)	3 x high current terminal blocks 16mm²		Phoenix Power Combicon	3 x high current terminal blocks 16mm		
AC Output	Appliance outlet Schurter		Phoenix Power-Combicon			
AC Input (bypass)	Appliance inlet Schurter			Phoenix Power-Subcon plug		
Alarm	Phoenix Mini-Combicon			Binder round connector		
Bypass Switch Time	<10ms			<5ms		
Other						
Optical Signals		LCD dot matrix display		LEDs for load display, PG/ON		
Signal Output		Voltage free alarm contact		Potential free status-/alarmcontac		
Operation	Push-button for setup, DC switch, AC switch			Push-button for setup, DC switch		
Warranty	2 Years					

Options Table

Code	Description
/1	
·/2	Unit built with connectors mounted on rear of unit