


DEVICE DESCRIPTION

Modular inverters build scalable systems where the required power is achieved via selecting the needed number of inverter modules working in parallel. It is also possible to build redundant systems. Due to independent control system of each module, every module can be replaced without interrupting system operation and without switching to a bypass line. The inverters have forced air cooling systems, fan's rotational speed is adjusted smoothly depending on the device internal temperature.

Specification:



- SAN 8 external communication system;
- Perfectly sinusoidal output voltage;
- High voltage and output frequency stability, both in steady state and dynamic states;
- Galvanic isolation of DC and AC circuits;
- High energy efficiency >92%
- Events logging on the SD card;
- High immunity to overloads and harsh environment conditions;
- The ability to work with a load characterized by any $\cos \phi$ (supply of inductive or capacitive loads);
- Electromagnetic compatibility (EMC). Filters of EMI (electromagnetic interference) at the input and output circuits – limitation of emission of conducted disturbances and at the same time high resistance to electromagnetic interference;
- Advanced user communication: keyboard, control console with the LCD screen. Advanced user communication: keyboard, control console with the LCD screen;
- A wide range of data transmission protocols: Modbus RTU, IEC 60870-5-103, IEC 61850, SNMP; APS6000; other;
- Integrated communication interfaces: RS485, USB and Ethernet;
- Overcurrent, overvoltage, short-circuit protections;
- High short circuit current from $sc = 3 \times I_{nom}$ to $sc = 9 \times I_{nom}$, (high selectivity of tripping the protective devices);

Technical Parameters

DESCRIPTION	PARAMETER
Voltage stability(static)	+/- 1%
Voltage stability(dynamic)	+/- 5% up to 10 ms
THDU voltage distortion(linear load)	<2%
THDU voltage distortion(nonlinear load)	<5%
Output voltage frequency	50/60 Hz
Short-circuit current	3:1
Crest factor	3:1
$\cos \phi$	$\text{Cos } \phi \leq 1$ (0 ind to 0 cap)

Typeseries

SINGLE-PHASE AND THREE-PHASE INVERTERS BFI MS TYPE 1÷300 kVA

(Free installation in industrial cabinet)

Catalog No: BFI 10-130

Inverter Power Rating	Nominal Input Voltage DC	Single-phase (Nominal Output Voltage: 230 VAC)		Three-phase (Nominal Output Voltage: 3 x 400 VAC)	
		Type	Dimensions W*H*D (mm)	Type	Dimensions W*H*D (mm)
1 kVA	48 VDC	x	x	BFI 1 T 48/400 MS	600 x 2000 x 600
	60 VDC	BFI 1 S 60/230 MS	600 x 2000 x 600	BFI 1 T 60/400 MS	
	110 VDC	BFI 1 S 110/230 MS		BFI 1 T 110/400 MS	
	220 VDC	BFI 1 S 220/230 MS		BFI 1 T 220/400 MS	
2,5 kVA	48 VDC	BFI 2,5 S 48/230 MS	600 x 2000 x 600	BFI 2,5 T 48/400 MS	600 x 2000 x 600
	60 VDC	BFI 2,5 S 60/230 MS		BFI 2,5 T 60/400 MS	
	110 VDC	BFI 2,5 S 110/230 MS		BFI 2,5 T 110/400 MS	
	220 VDC	BFI 2,5 S 220/230 MS		BFI 2,5 T 220/400 MS	
5 kVA	48 VDC	BFI 5 S 48/230 MS	600 x 2000 x 600	BFI 5 T 48/400 MS	600 x 2000 x 600
	60 VDC	BFI 5 S 60/230 MS		BFI 5 T 60/400 MS	
	110 VDC	BFI 5 S 110/230 MS		BFI 5 T 110/400 MS	
	220 VDC	BFI 5 S 220/230 MS		BFI 5 T 220/400 MS	
10 kVA	48 VDC	BFI 10 S 48/230 MS	600 x 2000 x 600	BFI 10 T 48/400 MS	600 x 2000 x 600
	60 VDC	BFI 10 S 60/230 MS		BFI 10 T 60/400 MS	
	110 VDC	BFI 10 S 110/230 MS		BFI 10 T 110/400 MS	
	220 VDC	BFI 10 S 220/230 MS		BFI 10 T 220/400 MS	
	400 VDC	x	x	BFI 10 T 400/400 MS	
15 kVA	60 VDC	BFI 15 S 60/230 MS	600 x 2000 x 800	BFI 15 T 60/400 MS	600 x 2000 x 600
	110 VDC	BFI 15 S 110/230 MS		BFI 15 T 110/400 MS	
	220 VDC	BFI 15 S 220/230 MS		BFI 15 T 220/400 MS	
	400 VDC	x	x	BFI 15 T 400/400 MS	
20 kVA	60 VDC	BFI 20 S 60/230 MS	800 x 2000 x 800	BFI 20 T 60/400 MS	800 x 2000 x 800
	110 VDC	BFI 20 S 110/230 MS	600 x 2000 x 800	BFI 20 T 110/400 MS	600 x 2000 x 800
	220 VDC	BFI 20 S 220/230 MS		BFI 20 T 220/400 MS	
	400 VDC	BFI 20 S 400/230 MS		BFI 20 T 400/400 MS	
25 kVA	60 VDC	BFI 25 S 60/230 MS	1200 x 2000 x 800	BFI 25 T 60/400 MS	
	110 VDC	BFI 25 S 110/230 MS	600 x 2000 x 800	BFI 25 T 110/400 MS	600 x 2000 x 800
	220 VDC	BFI 25 S 220/230 MS		BFI 25 T 220/400 MS	
	400 VDC	BFI 25 S 400/230 MS		BFI 25 T 400/400 MS	
30 kVA	60 VDC	BFI 30 S 60/230 MS	1200 x 2000 x 800	BFI 30 T 60/400 MS	
	110 VDC	BFI 30 S 110/230 MS	600 x 2000 x 800	BFI 30 T 110/400 MS	600 x 2000 x 800
	220 VDC	BFI 30 S 220/230 MS		BFI 30 T 220/400 MS	
	400 VDC	BFI 30 S 400/230 MS		BFI 30 T 400/400 MS	
40 kVA	110 VDC	x	x	BFI 40 T 110/400 MS	
	220 VDC	BFI 40 S 220/230 MS	600 x 2000 x 800	BFI 40 T 220/400 MS	600 x 2000 x 800
	400 VDC	BFI 40 S 400/230 MS		BFI 40 T 400/400 MS	
50 kVA	110 VDC	x	x	BFI 50 T 110/400 MS	
	220 VDC	BFI 50 S 220/230 MS	800 x 2000 x 800	BFI 50 T 220/400 MS	800 x 2000 x 800
	400 VDC	BFI 50 S 400/230 MS		BFI 50 T 400/400 MS	
60 kVA	110 VDC	x	x	BFI 60 T 110/400 MS	
	220 VDC	BFI 60 S 220/230 MS	800 x 2000 x 800	BFI 60 T 220/400 MS	800 x 2000 x 800
	400 VDC	BFI 60 S 400/230 MS		BFI 60 T 400/400 MS	
75 kVA	110 VDC	x	x	BFI 75 T 110/400 MS	
	220 VDC	BFI 75 S 220/230 MS	1200 x 2000 x 800	BFI 75 T 220/400 MS	800 x 2000 x 800
	400 VDC	BFI 75 S 400/230 MS		BFI 75 T 400/400 MS	
100 kVA	220 VDC	BFI 100 S 220/230 MS	1400 x 2000 x 800	BFI 100 T 220/400 MS	
	400 VDC	BFI 100 S 400/230 MS		BFI 100 T 400/400 MS	800 x 2000 x 800
150 kVA	220 VDC	x	x	BFI 150 T 220/400 MS	1600 x 2000 x 800
	400 VDC	x	x	BFI 150 T 400/400 MS	1200 x 2000 x 800
200 kVA	220 VDC	x	x	BFI 200 T 220/400 MS	1600 x 2000 x 800
	400 VDC	x	x	BFI 200 T 400/400 MS	
250 kVA	400 VDC	x	x	BFI 250 T 400/400 MS	2400 x 2000 x 800
300 kVA	400 VDC	x	x	BFI 300 T 400/400 MS	2400 x 2000 x 800

The manufacturer reserves the right to change the equipment parameters. Other types of solutions can be provided on request.



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