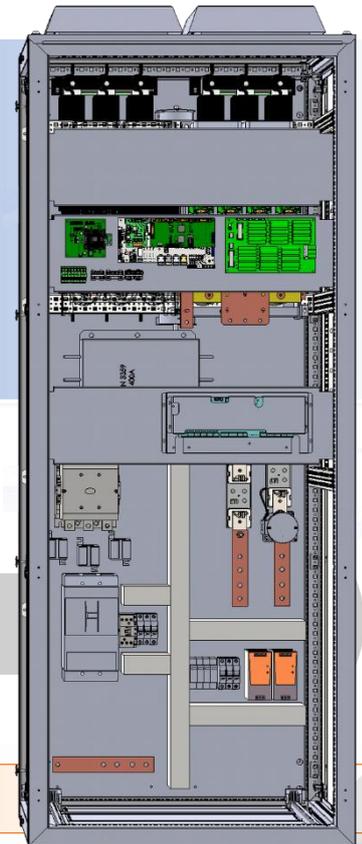




BSI 1000C with powers: 100 kW – 2 MW

Bidirectional AC/DC power electronic converter
Designed for use in electricity storage

The bidirectional AC/DC power electronic converter type BSI **1000C** controls the process of converting electricity supplied to or taken from batteries and is an integral part of any electricity storage.



Basic parameters:

- Charging and discharging battery storages onto the mains
- Galvanic separation of batteries from the mains
- Active power control P and reactive power control Q
- Harmonic compensation (optional)
- Reactive power compensation (optional)
- Praca on-grid, off-grid
- Power flow control independently for each phase (4L systems)

Specifications:

AC side

UAC Voltage: 3 x 400V
 Rated Frequency: 50 Hz
 IAC Rated Current: **100 kW:** 146 A
250 kW: 365 A
500 kW: 730 A

200 kW: 292 A
350 kW: 511 A

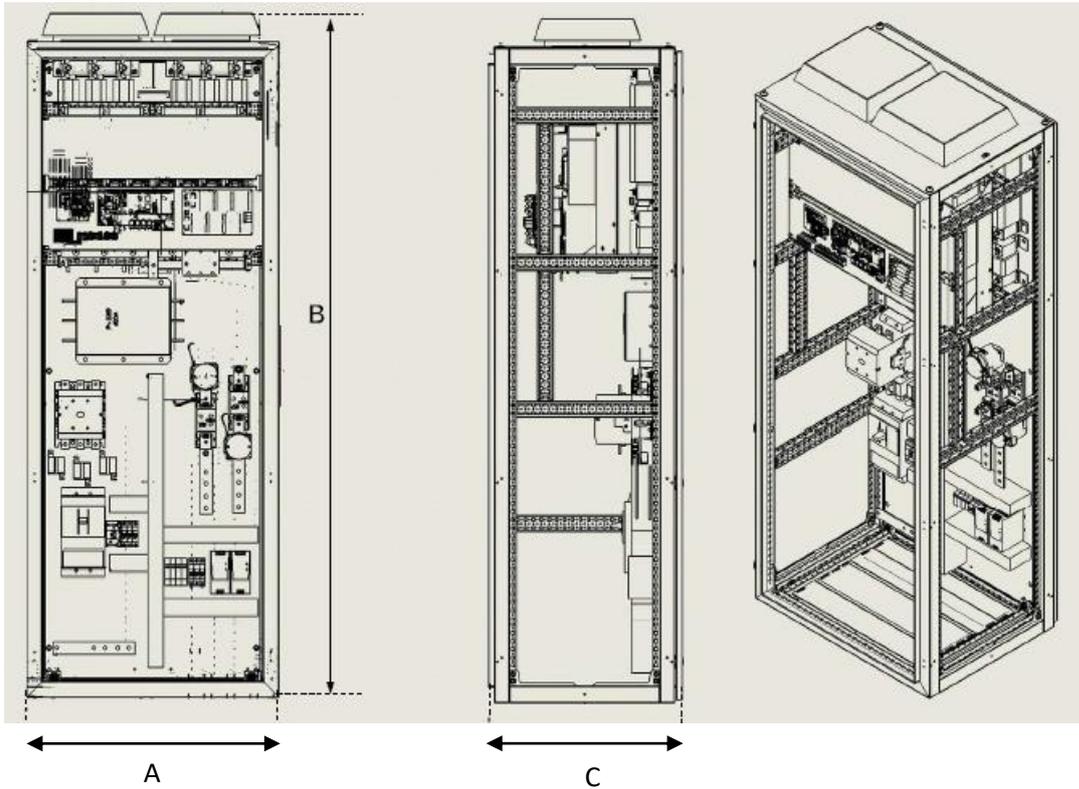
DC Page

UDC Voltage: 620 ÷ 780 VDC at 400 V_{AC}
 IDC Current: 0 ÷ 385 A
100 kW: 162 A
250 kW: 404 A
500 kW: 808 A

200 kW: 323 A
350 kW: 565 A



View of the device and mechanical dimensions



Pn	A: Width [mm]	B: Height [mm]	C: Depth [mm]
100 kW	600	2100	600
200 kW	800	2100	600
250 kW	800	2100	600
350 kW	1200	2100	600
500 kW	1200	2100	600

Protection: IP21

Communication:

- Connectors: RS-485, Ethernet, CAN
- Communication protocol: Modbus RTU functions: 3,6,16, Modbus TCP/IP: functions 3,6,16, CANopen
- RS-485 transmission rate: 2400,4800, 9600, 19200, 38400, 57600, 115200 bit/s

Inverter internal protections:

- Short-circuit at the output of the system
- Overcurrent AC – Overcurrent DC
- AC/DC Overvoltage - Undervoltage – Thermal
- Control of analog inputs
- Fast short-circuit protection (fuse link) on the AC side



ORDER CODE – HOW TO CONFIGURE THE CONVERTER

(please tick the appropriate boxes and write down the symbol of the ordered device according to the pattern under the table)

Power*	
100 kW <input type="checkbox"/>	200 kW <input type="checkbox"/>
250 kW <input type="checkbox"/>	350 kW <input type="checkbox"/>
500 kW <input type="checkbox"/>	
AC and DC voltage range	
400: AC: 400V, DC: 620V-780V <input type="checkbox"/>	500: AC: 500V, DC: 780V-840V <input type="checkbox"/>
690: AC: 690V, DC: 1080V-1200V <input type="checkbox"/>	800: AC: 800V, DC: 1260V-1550V <input type="checkbox"/>
Topology	
3L: without neutral wire <input type="checkbox"/>	4L: with neutral wire <input type="checkbox"/>
Configuration	
S: „Single” tylko AC/DC <input type="checkbox"/>	D: DC/DC converter <input type="checkbox"/>
Galvanic separation - transformer	
NO (0) <input type="checkbox"/>	YES (1) <input type="checkbox"/>
RFI Filter	
NO (0) <input type="checkbox"/>	YES (1) <input type="checkbox"/>
Type of cooling	
Air (A) <input type="checkbox"/>	Liquid (W) <input type="checkbox"/>
CAN communication	
NO (0) <input type="checkbox"/>	YES (1) <input type="checkbox"/>

An example of how to configure a symbol to place an order:

250 kW system with 400V power supply and 620-770VDC battery voltage, 4-branch in Single design, with RFI filter, liquid cooling without CAN communication

BSI1000C-250-400-4L-1-S-1-W-0

* power range from 100 kW – 2 MW