

D.C.-D.C. Converter BSZ-PG 1200



Brief Description

The d.c.-d.c. converter BSZ-PG 1200 was developed especially for the operation on the fuel cell "Nexa" made by the company Ballard.

The whole system consists of fuel cell, the d.c.-d.c. converter BSZ-PG 1200, an accumulator and the load. The BSZ-PG 1200 has to handle the battery-management and to control the fuel cell.

The d.c.-d.c. converter BSZ-PG 1200 complies following requirements

- High efficiency also at light load
- Protection of battery and fuel cell
- Automatic load reduction if NEXA in non-specified conditions
- Microprocessor controlled operation for optimum use of battery and fuel cell
- Fully automatic operation
- Manual controlling possibilities by supervisory control system
- Easy installation
- Compact design, lightweight construction
- LCD-Display shows Nexa and BSZ-PG 1200 parameters
- Integrated galvanic isolated RS232 adapter
- Free programmable I-U-profiles via Visualisation and P
- Relay contact to engage/disengage external loads (protection for hybrid battery)

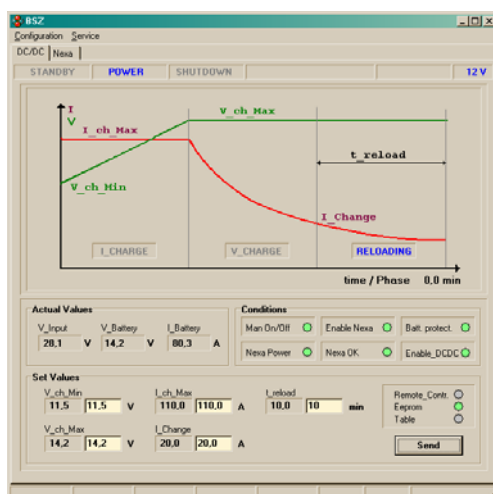
The d.c.-d.c. converter BSZ-PG 1200 is available in two variants, for use in 12V- and 24V-systems.

Specifications

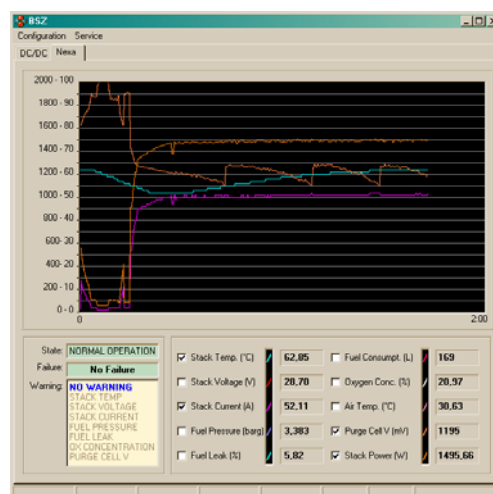
Nominal output voltage.	12V/24V
Output voltage range	11V-15V / 22V-30V
Accuracy of output voltage	2%
Nominal output current	100A/50A
Maximum output current	110A/55A
Maximum output power	1200W
Maximum output current ripple	2%
Operating input voltage range	26VDC-48VDC
Maximum input voltage	50V
Minimum voltage drop input to output	1.5V
Power consumption standby	2W
Ambient temperature	0°C...40°C
Efficiency	94% (12V) / 96% (24V)
Short-circuit proof	Yes
Thermal protection	Internal 80°C
Interface	RS232 (BSZ-PG 1200); RS485 (Nexa)
Mechanical dimensions	(320 x 14 x 80) mm
Weight	Approx. 1.5 kg

Scope of supply

- Power unit with M6 screw connector to Nexa and battery
- Display/control unit with cable connection to Nexa and power unit
- Cable for Nexa power supply
- External 12V/24V-4.5A d.c.-d.c. converter (only for 12V systems)
- Visualisation software (with first order the customer obtains the licence of visualisation software)



Visualisation of d.c.-d.c. parameters



Visualisation of Nexa parameters

For more informations please contact ISLE GmbH.

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