



**Article number:** 231 618  
**Description:** SB 5000TL HC-D

**Input variables (DC)**

Max. output	$P_{DC, max}$	5300 W
Voltage range	$U_{PV}$	125 – 750 V
Max. input voltage	$I_{PV, max}$	2 x 11 A
Max. no. of strings		2
Separator		MC-T3 plug system
Earth leakage protection		Yes
Reverse battery protection		Yes

**Output values (AC)**

Max. output	$P_{AC, max}$	5000 W
Power rating	$P_{AC, B}$	4600 W
Distortion factor	k	< 4 %
Voltage operating range	$U_{AC}$	198 – 253 V
Frequency range	$f_{AC}$	47.5 – 50.2 Hz
Short circuit stability		Yes
Mains connection		High-strength cable gland
Max. efficiency	$\eta_{max}$	96.2 %
European efficiency level	$\eta_{euro}$	95.5 %
Power consumption (operational)		< 10 W
Power consumption (night-time operation)		0.25 W

Size (W x H x D)	470 x 490 x 225 mm
Weight	Approx. 31.0 kg
Protection (DIN EN 60 529)	IP65
Operating temperature range	-25 °C ... +60 °C

**Operational data displayed:**

- Current feed values
- Current voltage
- Overall yield
- No. hours operation to present
- Daily yield
- Fault
- Cause of fault

**Inverter: SB 5000TL HC-D**

The new modular system technology enables the direct current from the photovoltaic module to be converted into alternating current as early as possible in the energy supply chain. This eliminates the need for costly DC current distribution and the main DC leads that were previously necessary. The **SB 5000TL HC-D inverter** allows independent MPP control of up to two module groups (2 strings). The stand-alone power warning integrated in each string inverter means that connection is possible at any point along the 230 V mains supply (single phase connection).

**Quality features, certificates**

- Inverter with no transformer
- Three independent MPP control loops
- Extremely efficient
- DC connection: MC-T3 plug-in system
- No photovoltaic current distribution required.
- Integrated mains monitoring (VDEW regulations)
- Diagnosis and communication via the network: PV voltage, mains voltage and mains frequency, feed supply and feed output, operating hours, energy supplied (kWh), operating mode.
- Protection class IP65, also suitable for external installation.
- Protection of installation and people through sensitive protective circuit, insulation monitoring, and protection against excess voltage.
- CE mark
- PV installations are easy to extend thanks to modular construction.
- Module groups coupled at AC voltage level with tried-and-tested installation technology.
- Extended temperature range (-25 °C to +60 °C ambient temperature).
- Key operating data and faults displayed on a special cover.