Article number: **221 321**
Description: **SB 2500-D**

Input variables (DC)			
Max. output	$P_{DC, max}$	2700	W
Voltage range	U_{PV}	224 – 600	V
Max. input voltage	$I_{PV, max}$	12	A
Max. Max. no. of strings (parallel)		3	
Separator		MC–T3 plug system	
Earth leakage protection		Yes	
Reverse battery protection		Yes	
Output values (AC)			
Max. output	$P_{AC, max}$	2500	W
Power rating	$P_{AC, B}$	2300	W
Distortion factor	k	< 4	%
Voltage operating range	U_{AC}	198 – 260	V
Frequency range	f_{AC}	49.8 – 50.2	Hz
Short circuit stability		Yes	
Mains connection		AC plug–in connector	
Max. efficiency	η_{max}	94.1	%
European efficiency level	η_{euro}	93.2	%
Power consumption (operational)		< 7	W
Power consumption (night–time operation)		0.25	W
Size (W x H x D)		434 x 295 x 214	mm
Weight		Approx. 30.0	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 2500-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 2500-D inverter** allows MPP control of up to three module groups (3 strings). The stand–alone power warning integrated in each string inverter means that connection is possible anywhere in the 230 V power supply (single phase connection).

Quality features, certificates

- Excellent efficiency level up to 93%
- DC connection: MC–T3 plug–in system
  AC connection: AC plug
- 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 galvanic separation, insulation checking, excess voltage protection.
- 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.
- Economical, even for smaller systems.
- Extended temperature range (–25 °C to + 60 °C ambient temperature).
- Key operating data and faults displayed on a special cover.