Article number: **231 616**
Description: **SB 3800-D**

Input variables (DC)			
Max. output	$P_{DC, max}$	4040	W
Voltage range	U_{PV}	200 – 500	V
Max. input voltage	$I_{PV, max}$	20	A
Max. no. of strings		3	
Separator		MC–T3 plug system	
Earth leakage protection		Yes	
Reverse battery protection		Yes	
Output values (AC)			
Max. output	$P_{AC, max}$	3800	W
Power rating	$P_{AC, B}$	3800	W
Distortion factor	k	< 3	%
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}	95.6	%
European efficiency level	η_{euro}	94.7	%
Power consumption (operational)		< 7	W
Power consumption (night–time operation)		0.25	W
Size (W x H x D)		450 x 352 x 236	mm
Weight		Approx. 41.0	kg
Protection (DIN EN 60 529)		IP54	
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 3800-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 3800-D inverter** allows MPP control of up to three module groups (3 strings). The independent mains monitoring integrated in each string inverter allows single–phase connection at any point along the 230 V mains supply.

Quality features, certificates

- Extremely efficient
- 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 IP54, 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.
- Extended temperature range (–25 °C to +60 °C ambient temperature).
- Key operating data and faults displayed on a special cover.