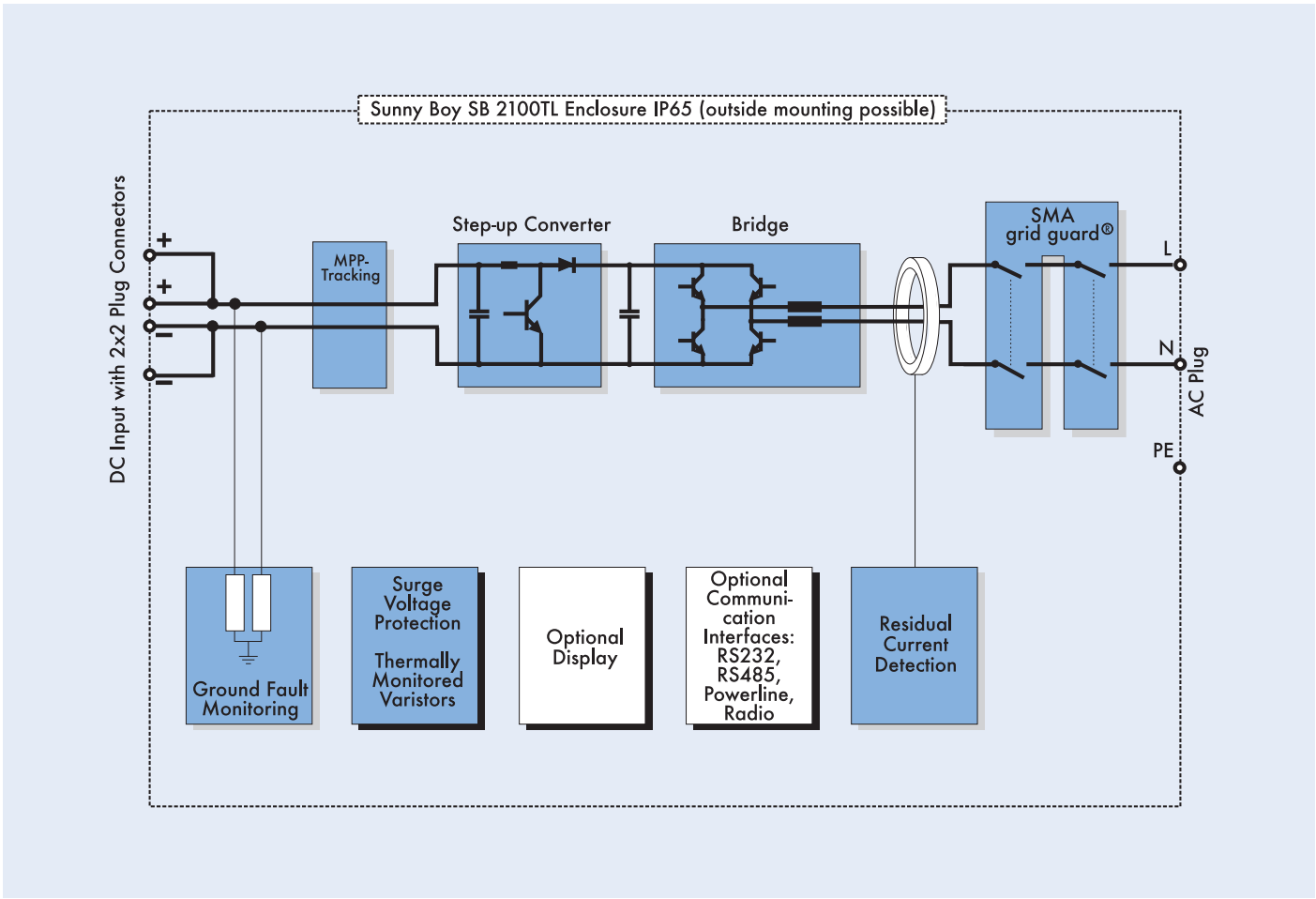
Sunny Boy 2100TL

Best price/performance ratio

- Top efficiency (96%)
- Extended input voltage range (125 to 600 V DC)
- Transformerless with integrated all-pole sensitive residual current detection
- SMA grid guard® (MSD)
- Diagnosis and communication via Powerline Communication, radio transmission or via data cable (RS232 or RS485)
- Extended temperature range –25 °C to +60 °C
- For outdoor and indoor installation
- Connection on the AC- and DC-side with connectors
- Surge voltage protection with integrated thermally monitored varistors

The SB 2100TL certainly isn't the only inverter from SMA that has an excellent price/performance ratio, but it is a very special one. Firstly it doesn't use a transformer to carry out voltage adjustments, and secondly this inverter features the latest semiconductor technology and optimised circuit topography to increase its efficiency still further.
In addition, an extended input voltage range allows all kinds of combination options with the solar modules. Altogether some very good reasons why even the predecessor model gained first place in tests by the German product standards institute Stiftung Warentest.



Schematic diagram of the Sunny Boy 2100TL

Technical Data

	SB 2100TL
Input	
Recc. maximum PV-power (P_{PV})	approx. 2450 W_P *)
Max. DC power ($P_{DC, max}$)	2200 W
Max. DC voltage ($U_{DC, max}$)	600 V
PV-voltage range, MPPT (U_{PV})	125 V – 600 V
Max. input current ($I_{PV, max}$)	11 A
DC voltage ripple (U_{PP})	< 10 %
Max. number of strings (parallel)	2
DC disconnection	Snap cable connectors
Thermally monitored varistors	yes
Ground fault monitoring	yes
Pole confusion protection	Short circuit diode
Output	
Max. AC power ($P_{AC, max}$)	2100 W
Nominal AC power ($P_{AC, nom}$)	1950 W
THD of grid current	< 4 %
Default range of AC voltage (U_{AC})	198 V – 260 V
Possible range of AC voltage	180 V – 265 V
AC frequency (f_{AC})	49.8 Hz – 50.2 Hz
Possible range of AC frequency	45.5 Hz – 54.5 Hz
Phase shift (cos φ)	1
Short circuit proof	yes, current control
Connection to utility	AC Plug
Efficiency	
Max. Efficiency	96 %
Euro-eta	95.2 %
Enclosure	
accord. to DIN EN 60529	IP65
Mechanical Data	
Width / height / depth in mm	434 / 295 / 214
Weight	approx. 16 kg

*) for PV-Plants in Germany