

Sunny Boy 2800i

The aesthete



Team mode compatible

Optimized for indoor installation (IP21)

Easy plant design and reduced installation costs

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

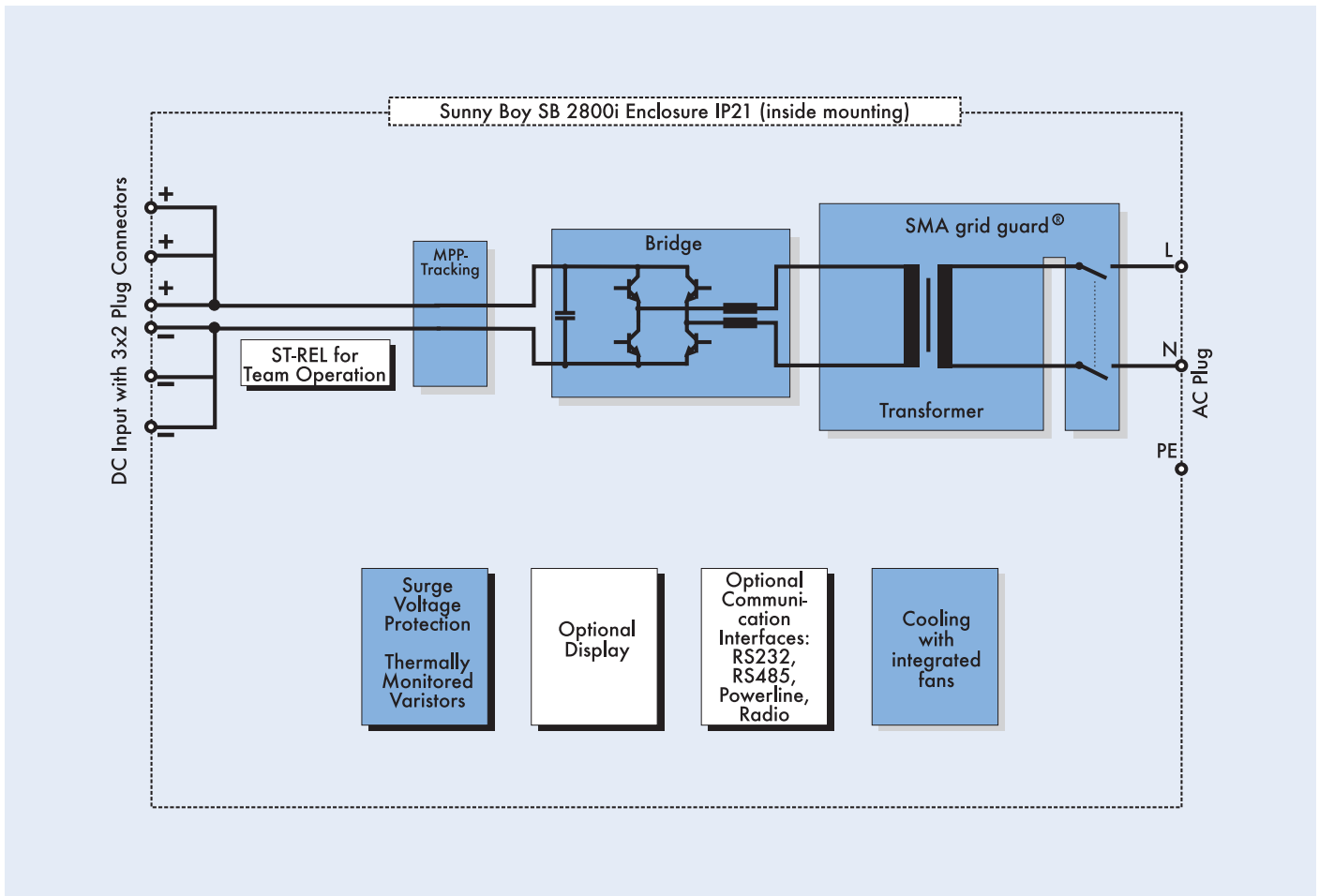
Connection on the AC- and DC-side with connectors

Surge voltage protection with integrated thermally monitored varistors

To say that the point of the SB 2800i is to look good wouldn't do justice to this inverter's high-tech standards. Experience shows that solar inverters are often installed indoors. So this unit was the first to be developed with an emphasis on finding a successful combination of innovative technology and elegant design.

An active fan ensures outstanding temperature management to protect the power electronics from getting too hot. This substantially reduces wear. At the same time, the SB 2800i is priced to make it an extremely interesting alternative to the outdoor models.





Schematic diagram of the Sunny Boy 2800i

Technical Data

	SB 2800i
Input	
Recc. maximum PV-power (P_{PV})	approx. 3400 W _p *)
Max. DC power ($P_{DC, max}$)	3050 W
Max. DC voltage ($U_{DC, max}$)	600 V
PV-voltage range, MPPT (U_{PV})	224 V - 600 V
Max. input current ($I_{PV, max}$)	13.5 A
DC voltage ripple (U_{pp})	< 10 %
Max. number of strings (parallel)	3
DC disconnection	Snap cable connectors
Thermally monitored varistors	yes
Ground fault monitoring	yes
Pole confusion protection	Short circuit diode
Output	
Max. AC power ($P_{AC, max}$)	2800 W
Nominal AC Power ($P_{AC, nom}$)	2600 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 ($\cos \varphi$)	1
Short circuit proof	yes, current control
Connection to utility	AC Plug
Efficiency	
Max. Efficiency	94 %
Euro-eta	93 %
Enclosure	
accord. to DIN EN 60529	IP21
Mechanical Data	
Width / height / depth in mm	440 / 305 / 226
Weight	approx. 31 kg

*) for PV-Plants in Germany