Sunny Boy Multi-String



SB 4200TL HC, SB 5000TL HC



Optimal for Different Strings due to Separate MPP-Tracking

Optimal Inverter for 6" and 6"+ Cells

Highly Flexible

Transformerless Topology with integrated all-pole fault current monitoring

SMA grid guard[®] 2:
Automatic disconnection

Electronic Solar Switch ESS: Integrated DC circuit breaker (optional)

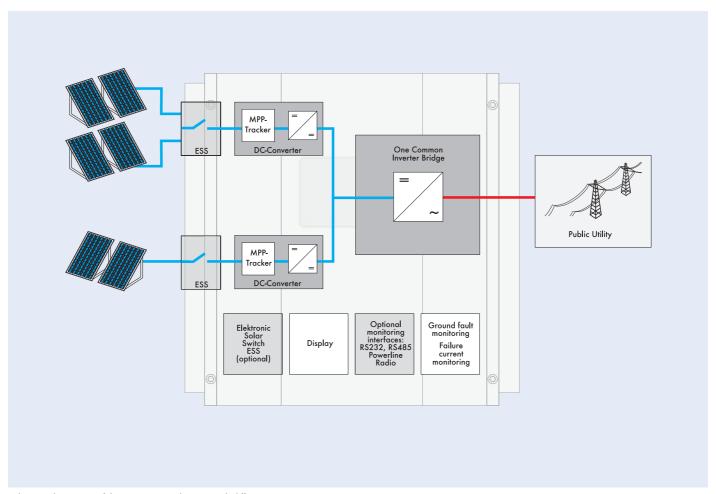
Extended Temperature Range –25 °C to +60 °C

For Inside and Outside Installation

5 Years SMA Warranty

Multi-String Inverters from SMA give you free choice: PV-plants with different orientations or different module types reach highest yields. The string connections are each equipped with separate MPP-trackers and the HC versions of the Multi-Strings allow the use of all standard crystalline technologies, as are 6" and 6"+ cells. The free choice of module types, highest efficiencies with up to 96 % due to a transformerless design, and a comprehensive safety system make the Multi-String the first choice for your plant.





Schematical overview of the Sunny Boy Multi-String with different PV-strings

Technical Data

	SB 4200TL HC Multi-String	SB 5000TL HC Multi-String
Input		
Max. DC power (PDC, max)	4400 W	5300 W
Max. DC voltage (UDC, max)	750 V	750 V
PV-voltage range, MPPT (Upv)	125 V - 750 V	125 V - 750 V
Max. input current (I _{PV, max})	2 x 11 A	2 x 11 A
DC voltage ripple (Upp)	< 10 %	< 10 %
Number MPP-Tracker	2	2
DC disconnection	Snap cable connectors, ESS	Snap cable connectors, ESS
Thermally monitored varistors	yes	yes
Ground fault monitoring	yes	yes
Pole confusion protection	Short circuit diode	Short circuit diode
Output		
Max. AC power (P _{AC, max})	4200 W	5000 W
Nominal AC power (PAC, nom)	4000 W	4600 W
THD of grid current	< 4 %	< 4 %
Nominal AC voltage (U _{AC, nom})	220 V - 240 V	220 V - 240 V
Nominal AC frequency (f _{AC, nom})	50 Hz	50 Hz
Power factor (cos φ)	1	1
Short circuit proof	yes, current control	yes, current control
Connection to utility	Screw-terminal	Screw-terminal
Efficiency		
Max. Efficiency	96.2 %	96.2 %
Euro-eta	95.4 %	95.5 %
Enclosure		
accord. to DIN EN 60529	IP65	IP65
Mechanical Data		
Width / height / depth in mm	470 / 490 / 225	470 / 490 / 225
Weight	31 kg	31 kg

