

SUNNY BOY 3300TL HC

SB 3300TL HC



Efficient

- Efficiency up to 96 %
- Transformerless

Safe

- Integrated ESS DC load disconnecting unit

Simple

- DC plug system SUNCLIX

Reliable

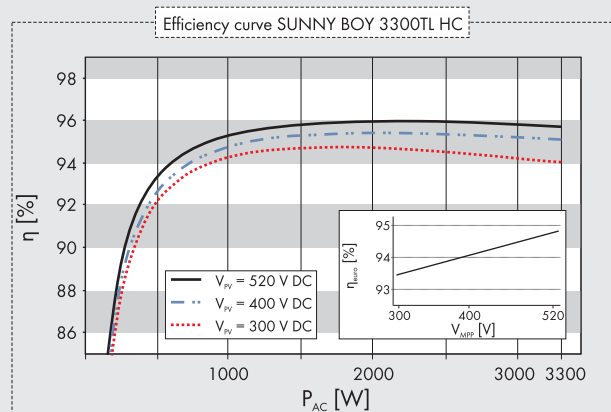
- Worldwide SMA service including Service Line
- Attractive SMA warranty program

SUNNY BOY 3300TL HC

Flexible and powerful

The transformerless topology of the Sunny Boy 3300TL HC offers two significant advantages: a high level of efficiency and easy installation due to the low overall weight. The device also offers impressive flexibility of application. Due to its broad input voltage range and input current range, all standard crystalline modules can be combined with the Sunny Boy 3300TL HC. In addition, the IP 65 protection rating and the first-class temperature management enable the device to be used under extreme climatic conditions. The integrated DC load-disconnecting switch saves the system operator the cost of an external switching device. The Sunny Boy 3300TL HC is also equipped with an all-pole sensitive leakage current monitoring unit, which guarantees safe operation at all times. As with all Sunny Boys, the SB 3300TL HC is also compatible with SMA communication products.

Technical data	Sunny Boy 3300TL HC
Input (DC)	
Max. DC power (@ $\cos \varphi = 1$)	3440 W
Max. DC voltage	750 V
MPP voltage range	313 V – 600 V
DC nominal voltage	520 V
Min. DC voltage / start voltage	125 V / 150 V
Max. input current / per string	11 A / 11 A
Number of MPP trackers / strings per MPP tracker	1 / 2
Output (AC)	
AC nominal power (@ 230 V, 50 Hz)	3000 W
Max. AC apparent power	3300 VA
Nominal AC voltage; range	220, 230, 240 V; 180 V – 260 V
AC grid frequency; range	50 Hz; -4.5 Hz, +2.5 Hz
Max. output current	16 A
Power factor ($\cos \varphi$)	1
Phase conductors / connection phases	1 / 1
Efficiency	
Max. efficiency / Euro-eta	96.0 % / 94.6 %
Protection devices	
DC reverse-polarity protection	●
ESS switch-disconnector	●
AC short circuit protection	●
Ground fault monitoring	●
Grid monitoring (SMA Grid Guard)	●
Galvanically isolated / all-pole sensitive fault current monitoring unit	-/●
Protection class / overvoltage category	I / III
General data	
Dimensions (W / H / D) in mm	470 / 490 / 225
Weight	28 kg
Operating temperature range	-25 °C ... +60 °C
Noise emission (typical)	≤ 29 dB(A)
Internal consumption (night)	< 0.25 W
Topology	transformerless
Cooling concept	OptiCool
Electronics protection rating / connection area (as per IEC 60529)	IP65 / IP65
Climatic category (per IEC 60721-3-4)	4K4H
Features	
DC connection: SUNCLIX	●
AC connection: screw terminal / plug connector / spring-type terminal	●/-/-
Display: text line / graphic	●/-
Interfaces: RS485 / Bluetooth®	o/o
Warranty: 5 / 10 / 15 / 20 / 25 years	●/o/o/o/o/o
Certificates and permits (more available on request)	CE, VDE 0126-1-1, DK 5940*, RD 1663, PPC, EN 50438**, C10/C11, PPDS
* Only applies to IT variants, ** Does not apply to all national deviations of EN 50438	
● Standard features ○ Optional features – not available	
Data at nominal conditions	
Type designation	SB 3300TL HC



Accessories



RS485 interface of type
485PB-NR



Bluetooth® Piggy Back
BTPBINV-NR