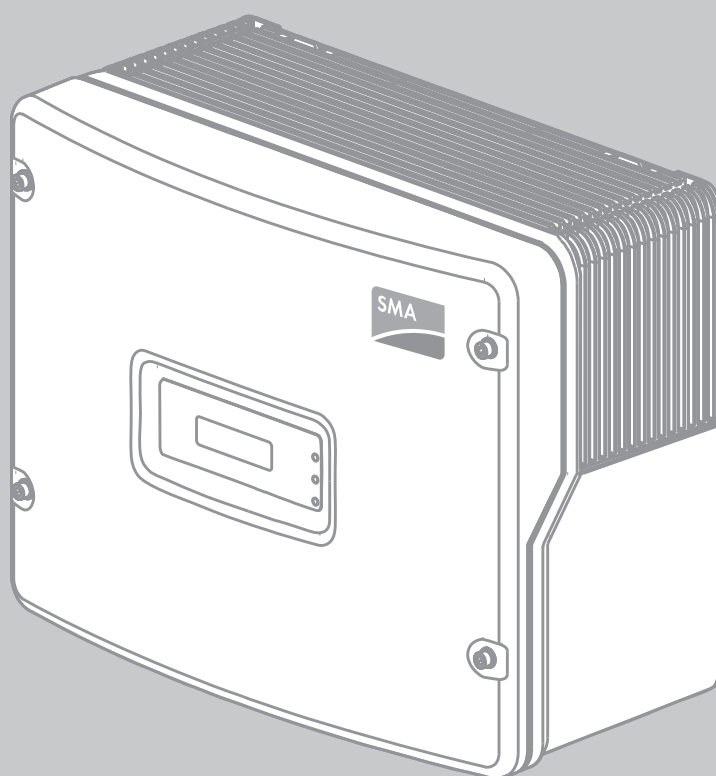




PV Inverter
SUNNY BOY 3300/3800
Installation Manual



11 Technical Data

11.1 DC/AC

11.1.1 Sunny Boy 3300

DC Input

Maximum DC power at $\cos \varphi = 1$	3 820 W
Maximum input voltage*	500 V
MPP voltage range	200 V ...400 V
Rated input voltage	200 V
Minimum input voltage	200 V
Start input voltage	250 V
Maximum input current	20 A
Maximum input current per string	16 A
Number of independent MPP inputs	1
Strings per MPP input with ESS	3
Strings per MPP input	2

* The maximum open-circuit voltage that can occur at -10°C cell temperature may not exceed the maximum input voltage.

AC Output

Rated power at 230 V, 50 Hz	3 300 W
Maximum apparent AC power	3 600 W
Rated grid voltage	230 V
AC nominal voltage	220 V / 230 V / 240 V
AC voltage range *	180 V ... 265 V
Nominal AC current at 220 V	15 A
Nominal AC current at 230 V	14.3 A
Nominal AC current at 240 V	13.8 A
Maximum output current	18 A
Total harmonic factor of the output current with total harmonic factor of the AC voltage < 2%, and AC power > 50% rated power	< 3%
Rated power frequency	50 Hz
AC grid frequency	50 Hz/60 Hz
Operating range at AC power frequency 50 Hz	+/- 4.5 Hz
Operating range at AC power frequency 60 Hz	+/- 4.5 Hz
Displacement power factor, adjustable	0.8 overexcited ... 0.8 underexcited
Feed-in phases	1
Connection phases	1
Overvoltage category according to IEC 60664-1	III

Efficiency

Maximum efficiency, $\eta_{\max}$	95.2%
European weighted efficiency, η_{EU}	94.4%