

ZEN 2000HF

Solar Control Centre



High Yields

- Maximum efficiency 96.3 %
- The best tracking efficiency with OptiTrac MPP tracking
- Shade management with OptiTrac Global Peak*

Safe

- Galvanic isolation
- Integrated ESS DC switch-disconnector
- Theft protection

Simple

- Quick and easy configuration thanks to Quick Module
- DC plug system SUNCLIX
- Suitable for generator grounding

Communicative

- Graphic display
- Bluetooth technology as standard

* In planning

Simply High Yields

This is the new generation of galvanically isolated inverters - packed full of the latest SMA technology, the ZEN 2000HF Solar Control Centre provides the highest yields for transformer inverters of this performance class.

Installation is now easier than ever thanks to the DC connector system SUNCLIX, the plug-in generator grounding (optional), and an easily accessible configuration area - including easier mounting due to the reduced weight.

The wide input voltage range from 175 to 700s gives you extraordinary flexibility for your plant design, and the modern graphic display and wireless Bluetooth communication system make the devices highly user-friendly.

Technical Data	2000HF
Input (DC)	
Max. DC voltage	700 V
MPP voltage range	175 V – 560 V
DC nominal voltage	530 V
Min. DC voltage / start voltage	175 V / 220 V
Max. input current / per string	12 A / 12 A
Number of MPP trackers / strings per MPP tracker	1 / 2
Output (AC)	
AC nominal power (@ 230 V, 50 Hz)	2000 W
Max. AC apparent power	2000 VA
Nominal AC voltage; range	220, 230, 240 V; 180 – 280 V
AC grid frequency; range	50, 60 Hz; ± 4.5 Hz
Max. output current	11.4 A
Power factor (cos ϕ)	1
Phase conductors / connection phases	1 / 1
Efficiency	
Max. efficiency / Euro-eta	96.3 % / 95.0 %
Protection devices	
DC reverse-polarity protection	yes
ESS switch-disconnector	yes
AC short circuit protection	yes
Ground fault monitoring	yes
Grid monitoring (SMA Grid Guard)	yes
Galvanically isolated / all-pole sensitive fault current monitoring unit	yes / —
Protection class / overvoltage category	I / III
General data	
Dimensions (W / H / D) in mm	348 / 580 / 145
Weight	< 18 kg
Operating temperature range	-25 °C ... +60 °C
Noise emission (typical)	38 dB(A)
Internal consumption: (night)	< 1 W
Topology	HF transformer
Cooling concept	OptiCool
Electronics protection rating / connection area (as per IEC 60529)	IP65 / IP54
Climatic category (per IEC 60721-3-4)	4K4H
Features	
DC connection: SUNCLIX	yes
AC connection: screw terminal / plug connector / spring-type terminal	— / yes / —
Display: text line / graphic	— / yes
Interfaces: RS485 / Bluetooth	opt. / yes
Warranty: 5 / 10 / 15 / 20 / 25 years	yes / opt. / opt. / opt. / opt.
Certificates and permits (more available on request)	CE, VDE 0126-1-1, Enel-Guida, RD 1663, G83/1-1, PPC, AS4777, EN 50438**, C10/C11, PPDS, UTE C 15-712-1

** Does not apply to all national deviations of EN 50438
Type designation SB 2000HF-30