

SOLAHART INVERTER 2000HF / 2500HF / 3000HF



Description

The new generation of Solahart galvanically isolated inverters – the HF series provides the highest yields for transformer inverters of this performance class. Installation is made easy with the DC connector system and an accessible configuration area – including easier mounting due to the reduced weight.

The wide input voltage range from 175 to 700 volts gives you extraordinary flexibility for your plant design and the modern graphic display and wireless Bluetooth® communication system makes the device highly user-friendly.



Key Features

- Quick and easy configuration
- Bluetooth® technology as standard
- Easier mounting due to reduced weight
- Theft protection

Key Benefits

- Maximum efficiency of 96.3%
- Optimum solar yield
- Safe – integrated ESS DC switch-disconnector
- Highly user-friendly
- 10 year warranty* for peace of mind

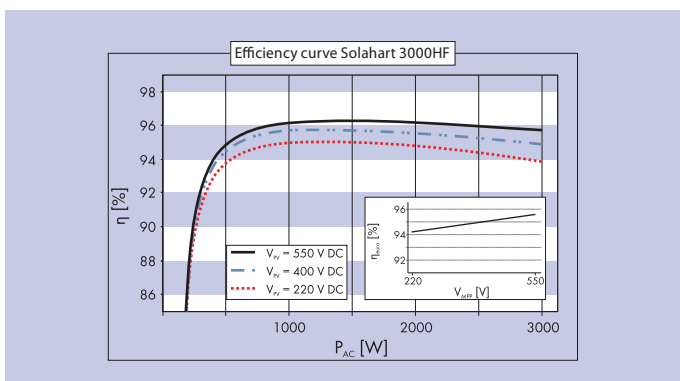
Technical data	Solahart 2000HF	Solahart 2500HF	Solahart 3000HF
Input (DC)			
Max. DC power (@ $\cos \phi=1$)	2100 W	2600 W	3150 W
Max. DC voltage	700 V	700 V	700 V
MPP voltage range	175 V - 560 V	175 V - 560 V	210 V - 560 V
DC nominal voltage	530 V	530 V	530 V
Min. DC voltage / start voltage	175 V / 220 V	175 V / 220 V	175 V / 220 V
Max. input current / per string	12 A / 12 A	15 A / 15 A	15 A / 15 A
Number of MPP trackers / strings per MPP tracker	1 / 2	1 / 2	1 / 2
Output (AC)			
AC nominal power (@ 230 V, 50 Hz)	2000 W	2500 W	3000 W
Max. AC apparent power	2000 VA	2500 VA	3000 VA
Nominal AC voltage; range	220, 230, 240 V; 180 - 280 V	220, 230, 240 V; 180 - 280 V	220, 230, 240 V; 180 - 280 V
AC grid frequency; range	50, 60 Hz; ± 4.5 Hz	50, 60 Hz; ± 4.5 Hz	50, 60 Hz; ± 4.5 Hz
Max. output current	11.4 A	14.2 A	15 A
Power factor ($\cos \phi$)	1	1	1
Phase conductors / connection phases	1 / 1	1 / 1	1 / 1
Efficiency			
Max. efficiency / Euro-eta	96.3 % / 95.0 %	96.3 % / 95.3 %	96.3 % / 95.4 %
Protection devices			
DC reverse-polarity protection	•	•	•
ESS switch-disconnector	•	•	•
AC short circuit protection	•	•	•
Ground fault monitoring	•	•	•
Grid monitoring (SMA Grid Guard)	•	•	•
Galvanically isolated	•	•	•
Protection class / overvoltage category	I / III	I / III	I / III
General data			
Dimensions (W / H / D) in mm	348 / 580 / 145	348 / 580 / 145	348 / 580 / 145
Weight	17 kg	17 kg	17 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	38 dB(A)	38 dB(A)	38 dB(A)
Internal consumption (night)	< 1 W	< 1 W	< 1 W
Topology	HF transformer	HF transformer	HF transformer
Cooling concept	OptiCool	OptiCool	OptiCool
Electronics protection rating / connection area (as per IEC 60529)	IP65 / IP54	IP65 / IP54	IP65 / IP54
Climatic category (per IEC 60721-3-4)	4K4H	4K4H	4K4H
Features			
DC connection	Sunclix	Sunclix	Sunclix
AC connection	Plug connector	Plug connector	Plug connector
Display	Graphic	Graphic	Graphic
Interfaces: Bluetooth® / RS485	• / ○	• / ○	• / ○
Warranty	10 years*	10 years*	10 years*
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, EN 50438***, C10/C11, PPDS		

* For full details see Solahart Owners Guide & Installation Instructions

*** Does not apply to all national deviations of EN 50438

• Standard features ○ Optional features

Data at nominal conditions



Specifications and designs included in this datasheet are subject to change without notice.

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