

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

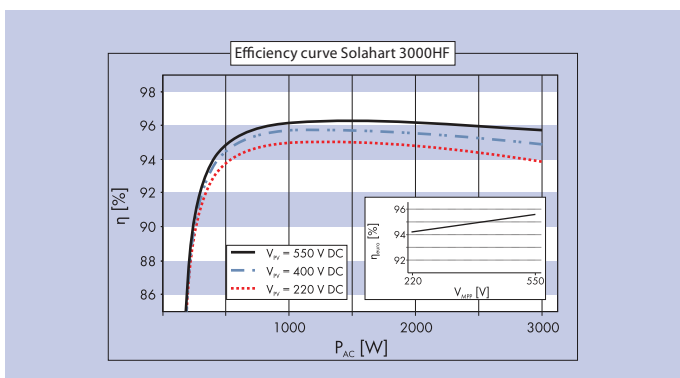
| Technical data | Solahart 2000HF | Solahart 2500HF | Solahart 3000HF |
|--|--|---------------------------------|---------------------------------|
| Input (DC) | | | |
| Max. DC power (@ $\cos \phi=1$) | 2100 W | 2600 W | 3150 W |
| Max. DC voltage | 700 V | 700 V | 700 V |
| MPP voltage range | 175 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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