

# Single Phase Inverter with HD-Wave Technology

SE2200H, SE3000H, SE3500H, SE3680H,  
SE4000H, SE5000H, SE6000H

INVERTERS



## Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Extremely small, lightweight and easy to install
- High reliability
- Built-in module-level monitoring
- Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Advanced safety feature - integrated arc fault protection
- Compatible with the StorEdge Interface for StorEdge™ applications

# / Single Phase Inverter with HD-Wave Technology

SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H

| SE2200H SE3000H SE3500H SE3680H SE4000H SE5000H SE6000H                                              |                                                                                                                                             |      |      |      |              |                     |      |     |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------------|---------------------|------|-----|
| OUTPUT                                                                                               |                                                                                                                                             |      |      |      |              |                     |      |     |
| Rated AC Power Output                                                                                | 2200                                                                                                                                        | 3000 | 3500 | 3680 | 4000         | 5000 <sup>(1)</sup> | 6000 | VA  |
| Maximum AC Power Output                                                                              | 2200                                                                                                                                        | 3000 | 3500 | 3680 | 4000         | 5000 <sup>(1)</sup> | 6000 | VA  |
| AC Output Voltage (Nominal)                                                                          | 220/230                                                                                                                                     |      |      |      |              |                     |      | Vac |
| AC Output Voltage Range                                                                              | 184 - 264.5                                                                                                                                 |      |      |      |              |                     |      | Vac |
| AC Frequency (Nominal)                                                                               | 50/60 ± 5                                                                                                                                   |      |      |      |              |                     |      | Hz  |
| Maximum Continuous Output Current                                                                    | 10                                                                                                                                          | 14   | 16   | 16   | 18.5         | 23                  | 27.5 | A   |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes                                                                                                                                         |      |      |      |              |                     |      |     |
| INPUT                                                                                                |                                                                                                                                             |      |      |      |              |                     |      |     |
| Maximum DC Power                                                                                     | 3400                                                                                                                                        | 4650 | 5425 | 5700 | 6200         | 7750 <sup>(2)</sup> | 9300 | W   |
| Transformer-less, Ungrounded                                                                         | Yes                                                                                                                                         |      |      |      |              |                     |      |     |
| Maximum Input Voltage                                                                                | 480                                                                                                                                         |      |      |      |              |                     |      | Vdc |
| Nominal DC Input Voltage                                                                             | 380                                                                                                                                         |      |      |      |              |                     |      | Vdc |
| Maximum Input Current                                                                                | 6.5                                                                                                                                         | 9    | 10   | 10.5 | 11.5         | 13.5                | 16.5 | Adc |
| Reverse-Polarity Protection                                                                          | Yes                                                                                                                                         |      |      |      |              |                     |      |     |
| Ground-Fault Isolation Detection                                                                     | 600kΩ Sensitivity per Unit                                                                                                                  |      |      |      |              |                     |      |     |
| Maximum Inverter Efficiency                                                                          | 99.2                                                                                                                                        |      |      |      |              |                     |      | %   |
| European Weighted Efficiency                                                                         | 98.3                                                                                                                                        | 98.8 |      |      |              | 99                  |      | %   |
| Nighttime Power Consumption                                                                          | < 2.5                                                                                                                                       |      |      |      |              |                     |      | W   |
| ADDITIONAL FEATURES                                                                                  |                                                                                                                                             |      |      |      |              |                     |      |     |
| Supported Communication Interfaces                                                                   | RS485, Ethernet, ZigBee (optional), WiFi (optional), Cellular (optional)                                                                    |      |      |      |              |                     |      |     |
| Smart Energy Management                                                                              | Export Limitation, Smart Energy, StorEdge Applications                                                                                      |      |      |      |              |                     |      |     |
| Arc Fault Protection                                                                                 | Integrated, User Configurable (According to UL1699B)                                                                                        |      |      |      |              |                     |      |     |
| STANDARD COMPLIANCE                                                                                  |                                                                                                                                             |      |      |      |              |                     |      |     |
| Safety                                                                                               | IEC-62109-1/2, AS-3100                                                                                                                      |      |      |      |              |                     |      |     |
| Grid Connection Standards                                                                            | AS-4777, VDE-AR-N-4105, VDE 0126-1-1, UTE C15-712, G83/2, G59/3, CEI-021, EN 50438, IEC61727, IEC62116, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1 |      |      |      |              |                     |      |     |
| Emissions                                                                                            | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B                                                               |      |      |      |              |                     |      |     |
| INSTALLATION SPECIFICATIONS                                                                          |                                                                                                                                             |      |      |      |              |                     |      |     |
| AC Output - Supported Cable Diameter                                                                 | 9-16                                                                                                                                        |      |      |      |              |                     |      | mm  |
| AC - Supported Wire Cross Section                                                                    | 1-13                                                                                                                                        |      |      |      |              |                     |      | mm² |
| DC Input                                                                                             | 1 x MC4                                                                                                                                     |      |      |      | 2 x MC4 pair |                     |      |     |
| Dimensions (H x W x D)                                                                               | 280 x 370 x 142                                                                                                                             |      |      |      |              |                     |      | mm  |
| Noise                                                                                                | < 25                                                                                                                                        |      |      |      |              |                     |      | dBA |
| Weight                                                                                               | 7.8                                                                                                                                         |      |      |      |              | 9                   | 10.6 | kg  |
| Cooling                                                                                              | Natural Convection                                                                                                                          |      |      |      |              |                     |      |     |
| Operating Temperature Range                                                                          | -20 to +60 <sup>(3)</sup> (-40°C option)                                                                                                    |      |      |      |              |                     |      | °C  |
| Protection Rating                                                                                    | IP65 — Outdoor and Indoor                                                                                                                   |      |      |      |              |                     |      |     |

<sup>(1)</sup> 4600VA in Germany

<sup>(2)</sup> 7130VA in Germany

<sup>(3)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>