

# SolarEdge Single Phase Inverters (North America)



## The only inverters specially designed for distributed DC architecture

- Superior efficiency (97.5%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- Outdoor and indoor installation
- Integral AC/DC Switch



# Single Phase Inverters (North America)

## SE3000A-US - SE7000A-US

All our inverters are part of SolarEdge's innovative system designed to provide superior performance at a competitive price. The SolarEdge inverter combines a sophisticated, digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance

– over 97% efficiency and best-in-class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

### TECHNICAL DATA

|   | SE3000A-US   | SE3800A-US                          | SE5000A-US                                       | SE6000A-US                            | SE7000A-US                          |         |
|---|--|-------------------------------------|--|---------------------------------------|-------------------------------------|---------|
| <b>OUTPUT</b>   |  |                                     |  |                                       |                                     |         |
| Rated AC Power Output   | 3000   | 3800                                | 5000   | 5200@208V<br>6000@240V<br>6000@277V   | 5200@208V<br>6000@240V<br>7000@277V | W       |
| Max. AC Power Output  | 3000   | 3800                                | 5000   | 5200@208V<br>6000@240V<br>6000@277V   | 5200@208V<br>6000@240V<br>7000@277V | W       |
| AC Output Voltage Min.-Nom.-Max.  | 183 - 208 - 229 / 211 - 240 - 264  |                                     | 183 - 208 - 229 / 211 - 240-264 / 244- 277 - 294 |                                       |                                     | Vac     |
| AC Frequency Min.-Nom.-Max.   | 59.3 - 60 - 60.5 (HI version 57 - 60 - 60.5)                                 |                                     |  |                                       |                                     | Hz      |
| Max. Continuous Output Current @208V                                      | 14.5   | 18.5                                | 24   | 25                                    | 25                                  | A       |
| Max. Continuous Output Current @240V                                      | 12.5   | 16                                  | 21   | 25                                    | 25                                  | A       |
| Max. Continuous Output Current @277V                                      | -  | -                                   | 18.5   | 22                                    | 25                                  | A       |
| GFDI  | 1  |                                     |  |                                       |                                     | A       |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes  |                                     |  |                                       |                                     |         |
| <b>INPUT</b>  |  |                                     |  |                                       |                                     |         |
| Recommended Max. DC Power * (STC)   | 3750   | 4750                                | 6250   | 7500                                  | 8750                                | W       |
| Transformer-less, Ungrounded  | Yes  |                                     |  |                                       |                                     |         |
| Max. Input Voltage  | 500  |                                     |  |                                       |                                     | Vdc     |
| Nom. DC Input Voltage   | 325 @ 208V / 350 @ 240V / 400 @ 277V   |                                     |  |                                       |                                     | Vdc     |
| Max. Input Current  | 10   | 12.5                                | 16   | 18                                    | 18.5                                | Adc     |
| Reverse-Polarity Protection   | Yes  |                                     |  |                                       |                                     |         |
| Ground-Fault Isolation Detection  | 600kΩ Sensitivity  |                                     |  |                                       |                                     |         |
| Maximum Inverter Efficiency   | 97.8   | 97.7                                | 98.3   | 98.3                                  | 98.3                                | %       |
| CEC Weighted Efficiency   | 97.5   | 97 @ 208V /<br>97.5@ 240V           | 97.5@ 208V, 240V<br>/ 98 @ 277V                  | 97 @ 208V / 97.5@ 240V /<br>98 @ 277V |                                     | %       |
| Nighttime Power Consumption   | < 2.5  |                                     |  |                                       |                                     | W       |
| <b>ADDITIONAL FEATURES</b>  |  |                                     |  |                                       |                                     |         |
| Supported Communication Interfaces  | RS485, RS232, Ethernet, Zigbee (optional)                                    |                                     |  |                                       |                                     |         |
| <b>STANDARD COMPLIANCE</b>  |  |                                     |  |                                       |                                     |         |
| Safety  | UL1741, IEC-62103 (EN50178), IEC-62109                                       |                                     |  |                                       |                                     |         |
| Grid Connection Standards   | Utility-Interactive, VDE 0126-1-1, AS-4777, RD-1663 , DK 5940, IEEE1547      |                                     |  |                                       |                                     |         |
| Emissions   | FCC part15 class B, IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12 |                                     |  |                                       |                                     |         |
| RoHS  | Yes  |                                     |  |                                       |                                     |         |
| <b>INSTALLATION SPECIFICATIONS</b>  |  |                                     |  |                                       |                                     |         |
| AC Output   | 3/4" Conduit   |                                     |  |                                       |                                     |         |
| DC Input  | 3/4" Conduit   |                                     |  |                                       |                                     |         |
| Dimensions (HxWxD)  | 21 x 12.5 x 7 /<br>540 x 315 x 172   | 21 x 12.5 x 7.5 / 540 x 315 x 191   |  |                                       |                                     | in / mm |
| Dimensions with AC/DC Switch (HxWxD)                                      | 30.5 x 12.5 x 7 /<br>775 x 315 x 172   | 30.5 x 12.5 x 7.5 / 775 x 315 x 191 |  |                                       |                                     | in / mm |
| Weight  | 44.7 / 20.2  | 47.7 / 21.7                         |  |                                       |                                     | lb / kg |
| Weight with AC/DC Switch  | 51.2 / 23.2  | 54.7 / 24.7                         |  |                                       |                                     | lb / kg |
| Cooling   | Natural Convection   |                                     |  |                                       |                                     |         |
| Noise   | < 50   |                                     |  |                                       |                                     | dBA     |
| Min.-Max. Operating Temperature Range                                     | -13 / -25 (CAN version -40 / -40) to +140 / +60                              |                                     |  |                                       |                                     | °F / °C |
| Protection Rating   | NEMA 3R  |                                     |  |                                       |                                     |         |

\* Higher input DC power may be installed; analyze yearly AC performance.

\*\* The following Part Numbers are available (CAN PNs are eligible for the Ontario FIT and microFIT):

208/240V, min. operating temp -4F/-20C: SE3000A-US, SE3800A-US, SE5000A-US, SE6000A-US, SE7000A-US, SE3000A-US-HI, SE3800A-US-HI, SE5000A-US-HI, SE6000A-US-HI, SE7000A-US-HI  
277V, min. operating temp -4F/-20C: SE5000A-US, SE6000A-US, SE7000A-US, SE5000A-US-HI, SE6000A-US-HI, SE7000A-US-HI  
208/240V, min. operating temp -40F/-40C: SE3000A-US-CAN, SE3800A-US-CAN, SE5000A-US-CAN, SE6000A-US-CAN  
277V, min operating temp -40F/-40C: SE5000A-US-CAN, SE6000A-US-CAN, SE7000A-US-CAN



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