

# StorEdge<sup>™</sup> Single Phase Solutions for North America



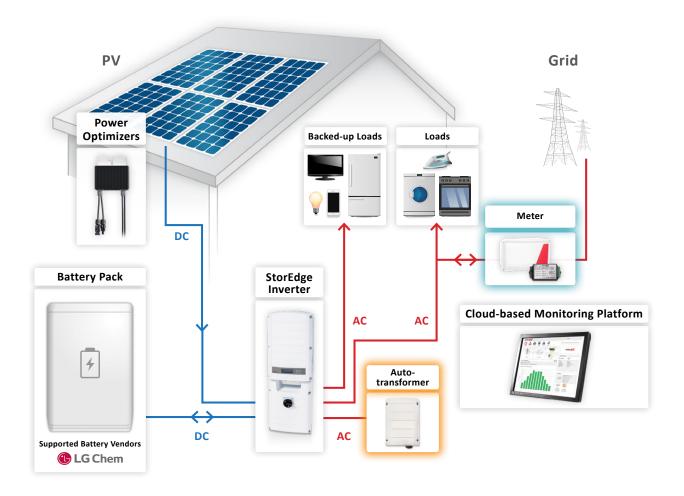
### **StorEdge™ Solutions Benefits:**

- More Energy DC-coupled architecture stores PV power directly to the battery without AC conversion losses
- Simple Design & Installation single inverter for PV, battery storage, grid-tied and backup applications
- Enhanced Safety no high voltage during installation, maintenance or firefighting
- Full Visibility monitor battery status, PV production, remaining backup power and self-consumption data

## **Solarece** StorEdge<sup>™</sup> Single Phase Solutions for North America

#### **StorEdge™ Features:**

- Smart Energy Management export control, time-of-use shifting, maximized self-consumption, demand response and peak shaving capabilities
- Backup power automatically provides power to backed-up loads in the event of grid interruption
- All-in-one solution uses a single DC optimized phase inverter to manage and monitor both PV generation and energy storage
- Compatible with the LG Chem RESU battery



| SolarEdge StorEdge <sup>™</sup> Solutions for North America - Product Selector |  |  |   |  |  |
|--|--|--|---|--|--|
|  | Grid-tied solar,<br>backup power<br>and smart energy<br>management | Grid-tied<br>solar and backup<br>power | Grid-tied solar<br>and smart energy<br>management |  |  |
| StorEdge Single Phase Inverter   | $\checkmark$   | $\checkmark$                           | $\checkmark$                                      |  |  |
| Auto-transformer   | ✓  | ✓                                      |   |  |  |
| Energy Meter   | 1  |  | ✓   |  |  |
| Battery  | $\checkmark$   | $\checkmark$                           | 1   |  |  |

## solaredge

### StorEdge<sup>™</sup> Single Phase Inverter for North America SE3800A-US<sup>(1)</sup>, SE7600A-US<sup>(1)</sup>

- Single inverter for PV, grid-tied storage and backup power
- Includes the hardware required to provide automatic backup power to backed-up loads in case of grid interruption
- Includes all interfaces needed for battery connection
- UL1741 SA certified, for CPUC Rule 21 grid compliance

|  | SE3800A-US  | SE7600A-US                        |     |
|--|---|-----------------------------------|-----|
| OUTPUT - AC (LOADS/GRID)                                       |   |                                   |     |
| Rated AC Power Output  | 3800  | 7600                              | VA  |
| Max AC Power Output  | 4175  | 8350                              | VA  |
| AC Output Voltage Min-Nom-Max (L-L) <sup>(2)</sup>             | 211-24  | 40-264                            | Vac |
| AC Frequency Min-Nom-Max <sup>(2)</sup>                        | 59.3 - 6  | 60 - 60.5                         | Hz  |
| Maximum Continuous Output Current @240V                        | 16  | 32                                | A   |
| GFDI   |   | 1                                 | A   |
| Utility Monitoring, Islanding Protection, Country Configurable | Y   | es                                |     |
| Thresholds   |   |                                   |     |
| Charge Battery from AC (if Allowed)                            | Y   | es                                |     |
| THD  | <   | <3                                | %   |
| Typical Nighttime Power Consumption                            |   | <5                                | W   |
| OUTPUT - AC (BACKUP POWER) <sup>(3)</sup>                      |   |                                   |     |
| Rated AC Power Output  | 50  | 00 <sup>(4)</sup>                 | VA  |
| Max AC Power Output - Surge (for 10 seconds)                   |   | 00 <sup>(4)</sup>                 | VA  |
| AC Output Voltage Min-Nom-Max (L-L)                            |   | 40-264                            | Vac |
| AC Output Voltage Min-Nom-Max (L-N)                            |   | 20-132                            | Vac |
| AC Grequency Min-Nom-Max                                       |   |                                   |     |
|  |   | 50 - 65                           | Hz  |
| Maximum Continuous Output Current @240V - Backup Mode          |   | 21                                | A   |
| Max Continuous Output Current per Phase @120V                  | <u>/</u>  | 25<br>1                           | A   |
| GFDI   |   | *****                             | A   |
| AC Circuit Breaker   |   | es                                |     |
| THD  | <5  |                                   | %   |
| Automatic switchover time                                      | <   | <2                                | sec |
| INPUT - DC (PV and BATTERY)                                    |   |                                   |     |
| Transformer-less, Ungrounded                                   | Υ   | es                                |     |
| Max Input Voltage  | 500   |                                   | Vdc |
| Nom DC Input Voltage   | 400   |                                   | Vdc |
| Reverse-Polarity Protection                                    | Y   | es                                |     |
| Ground-Fault Isolaton Detection                                | 600kΩ S   | Sensitvity                        |     |
| Maximum Inverter Efficiency                                    | g   | 98                                | %   |
| CEC Weighted Efficiency  | 97.5  |                                   | %   |
| INPUT - DC (PV)  |   |                                   |     |
| Maximum DC Power (STC)   | 5100  | 10250                             | W   |
| Max Input Current <sup>(5)</sup>                               | 13  | 23                                | Adc |
| 2-pole Disconnection   |   | es                                |     |
| INPUT - DC (BATTERY)   | ·   |                                   |     |
| Supported Battery Types  | LG Chem   | RESU10H                           |     |
| Number of Batteries per Inverter                               |   | *****                             |     |
| Continuous Power   | 1 or 2 <sup>(6)</sup>                                     |                                   | W   |
|  | 5000  |                                   |     |
| Peak Power   | 7000  |                                   |     |
| Max Input Current  | 17.5  |                                   | Adc |
| 2-pole Disconnection   | Yes   |                                   |     |
| DC Fuses on Plus and Minus                                     | 25A (field r  | eplaceable)                       |     |
| ADDITIONAL FEATURES  |   |                                   |     |
| Supported Communication Interfaces                             | *                   | rnet, Cellular, ZigBee (optional) |     |
| Revenue Grade Data, ANSI C12.20                                | Optio   | onal <sup>(7)</sup>               |     |
| Integrated AC, DC and Communication Connection Unit            | Y   | es                                |     |
| AC Disconnect  | Y   | es                                | I   |
| Manual Inverter Bypass Switch                                  | Y   | es                                |     |
| DC Voltage Rapid Shutdown (PV and Battery)                     | Yes, according to NEC 2014 and 2017 690.12 <sup>(8)</sup> |                                   |     |
| Auto-transformer thermal protection                            | · · · · · · · · · · · · · · · · · · ·                     | es                                |     |

<sup>(1)</sup> These specifications apply to inverters with part numbers SExxxxA-USS2 and connection unit model number BCU-1PH-USS

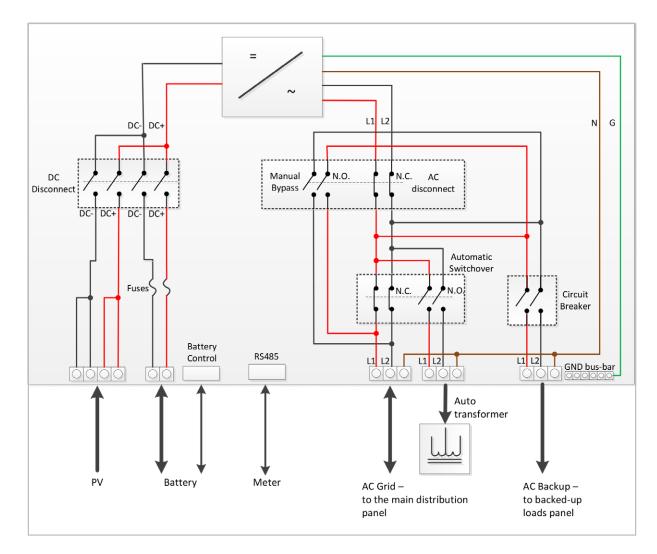
In these specifications apply to inverters with part numbers SEXXXA-0332 and Connection and Index number and the second and the



### StorEdge<sup>™</sup> Single Phase Inverter for North America SE3800A-US, SE7600A-US

|   | SE3800A-US   | SE7600A-US      |         |
|---|--|-----------------|---------|
| STANDARD COMPLIANCE                             |  |                 |         |
| Safety  | UL1741, UL1741 SA, UL1699B, UL1998, UL9540,CSA 22.2    |                 |         |
| Grid Connection Standards                       | IEEE1547, Rule 21, Rule 14H                            |                 |         |
| Emissions                                       | FCC part15 class B                                     |                 |         |
| INSTALLATION SPECIFICATIONS                     |  |                 |         |
| AC Output (Loads/Grid) conduit size / AWG range | 1" / 14-6 AWG  |                 |         |
| AC Output (Backup) conduit size / AWG range     | 0.75-1" knockouts / 14-6 AWG                           |                 |         |
| AC Input (Auto-transformer) conduit size / # of | 0.75-1" / 1  | 14-6 AWG        |         |
| Strings / AWG range                             |  |                 |         |
| DC Input (PV) conduit size / AWG range          | 0.75" / 1-2 Strings 14-8 AWG                           |                 |         |
| DC Input (Battery) conduit size / AWG range     | 0.75″ / 12-10 AWG                                      |                 |         |
| Dimensions with Connection Unit (HxWxD)         | 37 x 12.5 x 7.2 /                                      | 940 x 315 x 184 | in / mm |
| Weight with Connection Unit                     | 58.5 / 26.5  |                 | lb / kg |
| Cooling   | Natural convection and internal fan (user replaceable) |                 |         |
| Noise   | <50  |                 | dBA     |
| Min - Max Operating Temperature                 | -13 to +140 / -25 to +60                               |                 | °F / °C |
| Protection Rating                               | NEM  | A 3R            |         |

#### **Inverter Interface**





SEAUTO-TX-5000

|   | SEAUTO-TX-5000                           |         |  |  |  |
|---|--|---------|--|--|--|
| ELECTRICAL RATINGS                            |  |         |  |  |  |
| Rated Power - Continuous                      | 5000                                     |         |  |  |  |
| Rated Power - Peak                            | 7600 for 10sec                           | VA      |  |  |  |
| Output Voltage                                | 120/240V Split Phase                     |         |  |  |  |
| Max Continuous Output Current per Phase @120V | 25                                       | A       |  |  |  |
| Split Phase Imbalance (@Rated Power)          | Yes, up to 25A difference between phases |         |  |  |  |
| Thermal Protection                            | Yes                                      |         |  |  |  |
| INSTALLATION SPECIFICATIONS                   |  | i i     |  |  |  |
| AC Output conduit size / AWG range            | 0.75" / 14-6 AWG                         |         |  |  |  |
| Dimensions (HxWxD)                            | 6.7 x 7.9 x 5.5 / 170 x 200 x 140        | in / mm |  |  |  |
| Weight  | 29.7 / 13.5                              | lb / kg |  |  |  |
| Min - Max Operating Temperature               | -13 to +140 / -25 to +60                 | °F/°C   |  |  |  |
| Protection Rating                             | NEMA 3R                                  |         |  |  |  |
| Installation                                  | Wall mounted                             |         |  |  |  |



## **Solarecce Energy Meter** for North America

SF-MTR240-0-000-S2

For meter specifications refer to: https://www.solaredge.com/sites/default/files/se\_electricity\_meter\_na.pdf





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