Three Phase Inverter
SE3K - SE10K

Specifically designed to work with power optimizers

- Noise level suitable for residential environments – No external fan
- Superior efficiency (98%)
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless (Wi-Fi, ZigBee Gateway, Cellular)
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
### Three Phase Inverter

**SE3K-SE10K**(1)(2)

<table>
<thead>
<tr>
<th>OUTPUT</th>
<th>SE3K**(3)</th>
<th>SE4K**(3)</th>
<th>SE5K</th>
<th>SE6K**(3)</th>
<th>SE7K</th>
<th>SE8K</th>
<th>SE9K</th>
<th>SE10K</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated AC Power Output</td>
<td>3000</td>
<td>4000</td>
<td>5000</td>
<td>6000</td>
<td>7000</td>
<td>8000</td>
<td>9000</td>
<td>10000</td>
<td>VA</td>
</tr>
<tr>
<td>Maximum AC Power Output</td>
<td>3000</td>
<td>4000</td>
<td>5000</td>
<td>6000</td>
<td>7000</td>
<td>8000</td>
<td>9000</td>
<td>10000</td>
<td>VA</td>
</tr>
<tr>
<td>AC Output Voltage - Line to Line / Line to Neutral (Nominal)</td>
<td>380 / 220 ; 400 / 230</td>
<td>Vac</td>
<td></td>
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<tr>
<td>AC Output Voltage - Line to Neutral Range</td>
<td>184 - 264.5</td>
<td>Vac</td>
<td></td>
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<tr>
<td>AC Frequency</td>
<td>50/60 ± 5</td>
<td>Hz</td>
<td></td>
<td></td>
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<tr>
<td>Maximum Continuous Output Current (per Phase)</td>
<td>5</td>
<td>6.5</td>
<td>8</td>
<td>10</td>
<td>11.5</td>
<td>13</td>
<td>14.5</td>
<td>16</td>
<td>A</td>
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<tr>
<td>Grids Supported - Three Phase</td>
<td>3 / N / PE (WYE with Neutral)</td>
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<tr>
<td>Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds</td>
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</table>

<table>
<thead>
<tr>
<th>INPUT</th>
<th>Maximum DC Power (Module STC)</th>
<th>4050</th>
<th>5400</th>
<th>6750</th>
<th>8100</th>
<th>9450</th>
<th>10800</th>
<th>12150</th>
<th>13500</th>
<th>W</th>
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<tbody>
<tr>
<td>Transformer-less, Ungrounded</td>
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<td>Maximum Input Voltage</td>
<td>900</td>
<td>Vdc</td>
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<td>Nominal DC Input Voltage</td>
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<td>Vdc</td>
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<tr>
<td>Maximum Input Current</td>
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<td>7</td>
<td>8.5</td>
<td>10</td>
<td>12</td>
<td>13.5</td>
<td>15</td>
<td>16.5</td>
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<tr>
<td>Reverse-Polarity Protection</td>
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<td>Ground-Fault Isolation Detection</td>
<td>700kΩ Sensitivity</td>
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<tr>
<td>Maximum Inverter Efficiency</td>
<td>98</td>
<td>%</td>
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<td>European Weighted Efficiency</td>
<td>96.7</td>
<td>97.3</td>
<td>97.3</td>
<td>97.3</td>
<td>97.4</td>
<td>97.6</td>
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<td>Nighttime Power Consumption</td>
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<td>W</td>
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</tbody>
</table>

### ADDITIONAL FEATURES

- Supported Communication Interfaces**(4)**: RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)
- Smart Energy Management: Export Limitation, Home Energy Management (Device Control)

### STANDARD COMPLIANCE

- **Safety**: IEC-62103 (EN50178), IEC-62109
- **Emissions**: IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B
- **RoHS**: Yes

### INSTALLATION SPECIFICATIONS

- **AC Output**: Cable Gland - diameter 15-21 mm
- **DC Input**: 2 MC4 pairs
- **Dimensions (HxWxD)**: 540 x 315 x 191 mm
- **Weight**: 18.9 kg
- **Operating Temperature Range**: -20 to +60°C (M40 version -40 to +60)
- **Cooling**: Internal Fan
- **Noise**: < 40 dBA
- **Protection Rating**: IP65 - Outdoor and Indoor
- **Mounting**: Bracket Provided

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(1) These specifications apply to inverters with part number SE3K-xx00Exxxx
(2) For higher power models refer to: https://www.solaredge.com/sites/default/files/se-three-phase-inverter-extended-power-datasheet.pdf
(3) Available in some countries; refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(4) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
(5) For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(6) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

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