

# Countries Supported by the SolarEdge Inverters

The SolarEdge inverters can be used in many different countries. This document details countries where SolarEdge approves installation of its inverters. Installation should always be done in compliance with local regulations, and in case of a conflict between local regulations and this document, local regulations apply.

## Summary

The SolarEdge inverters may be installed in the following countries. Unless stated otherwise, the approval refers to low voltage installations. For medium voltage installations, please contact SolarEdge support. Please refer to the country details below for more information, as in some countries not all grids are supported or not all inverter models are supported.

In supported countries, connection of supported inverters to non-supported grids is permitted through a transformer, if these secondary connection (transformer connection to the inverter) is identical to a supported grid.



### NOTE

Transformer procurement, installation, maintenance and support are the responsibility of the installer. Damage to the inverter due to incorrect transformer installation or use of a transformer that is incompatible with the SolarEdge system will render the SolarEdge warranty invalid.



### NOTE

Prior to purchasing a StorEdge system verify battery availability and service in the country. Availability of SolarEdge StorEdge products does not guarantee battery availability.

A country listed in **bold** indicates that StorEdge Inverters with backup are approved for installation in that country.



### NOTE

The StorEdge Inverter must be connected Line to Neutral (and not Line to Line).

Argentina	Croatia	Hungary	Morocco	<b>Sweden</b>
Armenia	Curacao	India	Namibia	Switzerland
Aruba	Cyprus	Indonesia	Netherlands	Tahiti
<b>Australia</b>	Czech Republic	Ireland	<b>New Zealand</b>	Taiwan
Austria	Denmark	Israel	Norway	Thailand
Bahrain	Dominican Republic	Italy	Panama	Turkey
Barbados	Dubai	Jamaica	Peru	Ukraine
Belarus	Ecuador	Japan	Philippines	<b>United Kingdom</b>
Belgium	El Salvador	Jordan	<b>Poland</b>	Uruguay
Bermuda	Estonia	Kenya	Portugal	<b>USA</b>
Botswana	Finland	Korea	Romania	Vietnam
Brazil	France	Kuwait	Seychelles	Zimbabwe
Bulgaria	Georgia	Latvia	Singapore	
Canada	Germany	Lithuania	Slovakia	
Cape Verde	Ghana	Luxembourg	Slovenia	
Cayman Islands	Greece	Macau	<b>South Africa</b>	

Chile	Grenada	Malaysia	Spain	
China	Guadeloupe	Malta	Sri Lanka	
Colombia	Guatemala	Mauritius	St. Lucia	
Costa Rica	Hong Kong	Mexico	St. Vincent	

For installation in countries or with grids not detailed in this document, contact SolarEdge support:

[support@solaredge.com](mailto:support@solaredge.com)

\*Using the StorEdge Inverter with backup requires an External Disconnection Unit. For additional information refer to:

[https://www.solaredge.com/sites/default/files/se\\_storedge\\_inverter\\_for\\_europe\\_datasheet.pdf](https://www.solaredge.com/sites/default/files/se_storedge_inverter_for_europe_datasheet.pdf)

## Detailed Information per Country

The table below details for each of the above countries:

1. Supported inverters: which SolarEdge inverters may be used in the country
2. Inverter country setting: to what country setting the inverter should be configured in order to comply with the local grid requirements. Some countries have a submenu that should be used; sub-entries are indicated with the following symbol: ->
3. Frequency: the nominal inverter AC frequency for the corresponding country setting
4. Comments: additional information about the inverter and grid support

Supported inverters	Inverter country setting	Frequency	Comments
<b>Argentina</b>			
SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Israel -> Israel Israel -> Israel – Commercial	50Hz	Commercial setting for systems >50kW
<b>Aruba</b>			
SE3000H-US – SE10000H-US	Caribbean -> Aruba	60Hz	Can be connected to the following grid: 127/220V (L-L connection) SE3800H-US limited to 3.5kW AC SE6000H-US limited to 5.5kW AC SE11400H-US approved only for installations with no LVRT (low voltage ride through) requirement. If required – contact SolarEdge support
SE9KUS, SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	Caribbean -> Aruba	60Hz	Can be connected to the following grid: 127/220V
<b>Armenia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H; SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K	Germany	50Hz	
SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Germany -> Germany Germany -> Germany MVGC	50Hz	These inverters are approved for connection to the medium voltage grid according to the BDEW standard; use Germany MVGC
* StorEdge Inverter without backup power: SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H; * AC Coupled Inverters: SE3680H, SE5000H	Germany	50Hz	* Requires StorEdge-compatible inverter
<b>Australia</b>			
SE3000H, SE4000H, SE5000H, SE6000H, SE8250H, SE10000H;	Australia region A/B/C	50Hz	For the Australian market, to comply with AS/NZS 4777.2:2020, please select from Australia Region A/B/C, please contact your

SE5K-AUB, SE7K-AUB, SE8.25K-AUB, SE10K-AUB;  SE15K, SE17K, SE25K, SE30K, SE33.3K, SE50K, SE66.6K, SE82.8K, SE100K			local electricity grid operator on which Region to select
<b>Austria</b>			
SE2200H, SE3000H, SE3500H, SE3680H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K;  SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Austria (Österreich)	50Hz	400V grid connection acc. to TOR Erzeuger Typ A
SE2200H, SE3000H, SE3500H, SE3680H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Austria (Österreich)	50Hz	400V grid connection acc. to TOR Erzeuger Typ A  StorEdge compatible Inverter (AC- or DC-coupled) without backup power
SE25K, SE27.6K, SE30K, SE33.3K;  SE55K, SE66.6K, SE82.8K, SE90K, SE100K	Austria (Österreich)	50Hz	400V grid connection, acc. to TOR Erzeuger Typ B  + Site specific adjustment of parameters acc. to grid-operator
SE40K, SE120K	Austria 480V (Österreich)	50Hz	480V grid connection, acc. to TOR Erzeuger Typ B  (remark: certification pending)  + Site specific adjustment of parameters acc. to grid-operator
<b>Bahrain</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE50K, SE55K, SE82.8K, SE100K	Hungary	50Hz	

Supported inverters	Inverter country setting	Frequency	Comments
<p>* StorEdge Inverter without backup power:</p> <p>SE2200, SE3000, SE3500, SE4000, SE5000, SE6000, SE3500 AC;</p> <p>Coupled Inverter;</p> <p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>* AC Coupled Inverters:</p> <p>SE3680H, SE5000H</p>	Hungary	50Hz	* Requires StorEdge-compatible inverter
<b>Barbados</b>			
SE3000H-US – SE10000H-US	Caribbean -> Barbados 230V No N	50Hz	Can be connected to the following grids: 115/230V split phase or 3-wire (L-L connection) 230/400V WYE (L-N connection)
SE9KUS, SE10KUS, SE14.4KUS, 17.3KUS, SE43.2KUS, SE50KUS	Caribbean -> Barbados 115V	50Hz	Can be connected to the following grid: 115/200V WYE
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KUS, SE100KUS	Caribbean -> Barbados 230V (No N)	50Hz	<p>Can be connected to the following grid: 230/400V WYE</p> <p>SE20KUS limited to 16.5kW AC</p> <p>SE30KUS, SE33.3KUS limited to 27.6kW AC SE66.6KUS limited to 55kW AC</p> <p>SE100KUS limited to 82.8kW AC</p>
<b>Belarus</b>			
<p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K</p>	Europe EN50438	50Hz	
<p>* StorEdge Inverter without backup power:</p> <p>SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H</p> <p>AC Coupled Inverter;</p> <p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>* AC Coupled Inverters:</p> <p>SE3680H, SE5000H</p>	Europe EN50438	50Hz	* Requires StorEdge-compatible inverter

<b>Belgium</b>			
SE2000H, SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K;  SE10K-BE	Belgium 230/400V	50Hz	Refer to the following <a href="#">application note</a> for more details about grid compliance
SE66.6K, SE80K, SE100K, SE120K	Belgium 480V	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K,  SE10K-BE	Belgium Delta	50Hz	Can be connected to the following grid: 220/230V True Delta  Inverter AC power is limited; requires inverter adjustment. For details refer to the <a href="#">application note</a>
* StorEdge Inverter without backup power:  SE2000H, SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H,  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H  StorEdge three phase inverter:  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Belgium	50Hz	* Requires StorEdge-compatible inverter or installation of the StorEdge Interface; refer to <a href="#">application note</a> .
<b>Bermuda</b>			
SE3000H-US – SE10000H-US	USA -> Auto USA -> 240V USA -> 240V No Neutral  USA -> 208V USA -> 208V No Neutral	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter-grid compatibility
SE9KUS, SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	USA -> 208V	60Hz	120/208V WYE grid only
SE40KUS, SE66.6KU, SE80KUS, SE85KUS, SE100KUS, SE120KUS	USA -> 277V	60Hz	277/480V WYE grid only

Supported inverters	Inverter country setting	Frequency	Comments
<b>Botswana</b>			
SE5000, SE6000; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6, SE82.8K, SE100K	South Africa	50Hz	
<b>Brazil</b>			
SE9200H, SE8250H, SE6000H, SE5000H, SE3680H	Brazil --> Brazil 380/220Vac	60Hz	Can be connected to 380/220Vac and 220/127Vac grids.  When connected to 220/127Vac grid, must use 2phases, connecting one phase to neutral point at AC terminal of inverter
SE17K, SE21.1K SE27.6K, SE33.3K, SE75K	Brazil -> Brazil 380/220Vac Brazil -> Brazil 220/127Vac	60Hz	Can be connected to the following grids:  380/220Vac 220/127Vac, when connected to this grid:  SE17K limited to 9kW AC SE21.1K limited to 11.6kW AC SE27.6K limited to 15.2kW AC SE33.3K limited to 19.2kW AC SE75K limited to 43.5kW AC
SE100K	Brazil -> Brazil 480/277Vac	60Hz	This inverter has a 480/277Vac output voltage and is designed for connection to the medium voltage grid via a transformer
<b>Bulgaria</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE100K	Bulgaria	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;	Bulgaria	50Hz	* Requires StorEdge-compatible inverter

SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H,SE5000H			
<b>Canada</b>			
CAN, SE3000H-US – SE10000H-US	USA -> Auto USA -> 240V USA -> 240V No Neutral  USA -> 208V USA -> 208V No Neutral	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter-grid compatibility
SE9KUS,SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	USA -> 208V	60Hz	120/208V WYE grid only
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS,SE66.6KU, SE80KUS, SE85KUS, SE100KUS, SE120KUS	USA -> 277V	60Hz	277/480V WYE grid only
<b>Cape Verde</b>			
SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K,SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Cape Verde	50Hz	
<b>Cayman Islands</b>			
SE3000H-US – SE11400H-US	Hawaii -> XXX Auto  Hawaii -> XXX 240V  Hawaii -> XXX 240V No Neutral  Hawaii -> XXX 208V  Hawaii -> XXX 208V No Neutral  XXX = Hawaii / Kauai/ Molokai and Lanai	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter- grid compatibility.
SE9KUS,SE10KUS SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	Hawaii -> XXX 208V  XXX = Hawaii / Kauai / Molokai and Lanai	60Hz	120/208V WYE grid or 208V Delta grid
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KUS, SE100KUS	Hawaii -> XXX 277V  XXX = Hawaii / Kauai / Molokai and Lanai	60Hz	277/480V WYE grid only
<b>Chile</b>			
SE4K, SE5K, SE6K, SE7K, SE8K,SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE30K, SE33.3K, SE27.6K, SE33.3K, SE82.8K	Chile	50Hz	
<b>China (exc. Hong Kong and Macau)</b>			



Supported inverters	Inverter country setting	Frequency	Comments
SE15K, SE16K, SE17K; SE66.6K, SE100K, SE120K	China	50Hz	
<b>Colombia</b>			
	Colombia	60Hz	
<b>Costa Rica</b>			
SE3000H-US- SE10000H-US	USA -> Auto USA -> 240V USA -> 240V No Neutral  USA -> 208V USA -> 208V No Neutral	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter- grid compatibility
SE9KUS,SE10KUS SE14.4KUS, SE17.3KUSSE43.2KUS, SE50KUS	USA -> 208V	60Hz	120/208V WYE grid only
SE10KUS, SE20KUS, SE33.3KUS, SE40KUS, SE66.6KU, SE80KUS, SE85KUS, SE100KUS, SE120KUS	USA -> 277V	60Hz	277/480V WYE grid only
<b>Croatia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H;  SE4K, SE5K, SE7K, SE8K,SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Croatia	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters: SE3680H, SE5000H	Croatia	50Hz	* Requires StorEdge-compatible inverter
<b>Curacao</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H	Caribbean -> Curacao	50Hz	Can be connected to the following grids:  127/220V WYE (L-L connection) 110/220V split phase (L-L connection)  220/380V WYE (L-N connection)
SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K,	Caribbean -> Curacao	50Hz	Can be connected to the following grid:

SE25K, SE27.6K, SE30K, SE33.3K SE55K, SE82.8K, SE100K			220/380VVWE  Systems 100kW and larger must be approved bySolarEdge; contact SolarEdge Support for details
<b>Cyprus</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K;  SE55K,SE82.8K, SE100K	Cyprus Cyprus 240V	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H,SE5000H	Cyprus Cyprus 240V	50Hz	* Requires StorEdge-compatible inverter
<b>Czech Republic</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H,  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE20K;  SE50K, SE55K, SE66.6K, SE82.8K, SE100K	Czech Republic	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H,  AC Coupled Inverter;  SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter:	Czech Republic	50Hz	* Requires StorEdge-compatible inverter

Supported inverters	Inverter country setting	Frequency	Comments
SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS			
<b>Denmark</b>			
SE2200H, SE3000H, SE3500H, SE3680H;  SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE40K, SE50K, SE66.6K, SE90K, SE100K, SE120K	Denmark ->Denmark Denmark ->  Denmark Residen.  Denmark -> Denmark VDE Denmark ->  Denmark VDE Res.	50Hz	Use Residential settings to comply with 16Aac and6kW limits of residential systems  Use VDE settings for VDE-AR-N-4105 grid settings;  Inverters over 50kW will not appear on the Positiv list  Type B starts at 125 kW
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H  AC Coupled Inverter:  SE2200H,SE3000H, SE3500H, SE3680H; SE4000H, SE5000H, SE6000H	Denmark ->Denmark  Denmark -> Denmark Residen.Denmark ->  Denmark VDE  Denmark -> Denmark VDE Res.	50Hz	* Requires StorEdge-compatible inverter
<b>Dominican Republic</b>			
SE3000H-US – SE11400H-US	USA -> Auto  USA -> 240V  USA -> 240V No Neutral  USA -> 208V  USA -> 208V No Neutral  Rule 21 -> Auto  Rule 21 -> 240V  Rule 21 -> 240V No Neutral  Rule 21 -> 208V  Rule 21 -> 208V No Neutral	50Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter-grid compatibility
SE9KUS,SE10KUS SE14.4KUS, SE17.3KUSSE43.2KUS, SE50KUS	USA -> 208V  Rule 21 -> 208V	60Hz	120/208V WYE grid or 208V Delta grid
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KU, SE80KUS, SE85KUS, SE100KUS, SE120KUS	USA -> 277V  Rule 21 -> 277V  Puerto Rico 277V	60Hz	277/480V WYE grid only

<b>Dubai</b>			
SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K	Dubai	50Hz	
<b>Ecuador</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Ecuador	60Hz	
<b>El Salvador</b>			
SE3000H-US- SE10000H-US	USA -> Auto  USA -> 240V USA -> 240V No Neutral	60Hz	
<b>Estonia</b>			
SE2200H, SE3000H, SE3500H, SE3680H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Portugal	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Portugal	50Hz	* Requires StorEdge-compatible inverter
<b>Finland</b>			
SE4000H, SE5000H, SE6000H,  SE2200H, SE3000H, SE3500H, SE3680H;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE82.8K, SE100K	Finland	50Hz	

Supported inverters	Inverter country setting	Frequency	Comments
<p>* StorEdge Inverter without backup power:</p> <p>SE2200H, SE3000H, SE3500H, SE3680H; SE4000H, SE5000H, SE6000H, SE3500H</p> <p>AC Coupled Inverter:</p> <p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>StorEdge three phase inverter:</p> <p>SE5K-RWS, SE7K-RWS, SE8K- RWS, SE10K-RWS</p>	Finland	50Hz	* Requires StorEdge-compatible inverter
<b>France</b>			
<p>SE2200H</p> <p>SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;</p> <p>SE3K-RWB,SE4K-RWB, SE5K-RWB;</p> <p>SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;</p> <p>SE50K, SE55K, SE66.6K, SE80K, SE82.8K, SE90K, SE100K, SE120K</p>	France	50Hz	
SE33.3K, SE40K SE66.6K, SE100K	France -> France MV	50Hz	These inverters have a 277/480Vac output voltageand is designed for connection to the medium voltage grid via a transformer
<p>* StorEdge Inverter without backup power:</p> <p>SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H</p> <p>AC Coupled Inverter:</p> <p>SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>* AC Coupled Inverters:</p> <p>SE3680H,SE5000H</p> <p>StorEdge three phase inverter:</p> <p>SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS</p>	France	50Hz	* Requires StorEdge-compatible inverter

<b>Germany</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H,  SE3K-RWB, SE4K-RWB, SE5K-RWB  SE3K, SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K,  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SE5K-RWB48, SE8K-RWB48, SE10K- RWB48	Germany (Deutschland)	50Hz	400V grid connection acc. to  VDE-AR-N 4105:2018-11  StorEdge compatible Inverter (AC- or DC-coupled) without backup power
SE25K, SE27.6K, SE30K, SE33.3K,  SE55K, SE66K, SE82.8K, SE90K, SE100K	Germany MVGC (Deutschland_MV)	50Hz	400V grid connection acc. to VDE- AR-N 4110:2018-11  + Site specific adjustment of parameters acc. to grid-operator
SE33.3K, SE40K, SE100K, SE120K	Germany 480V (Deutschland 480V)	50Hz	480V grid connection acc. to VDE- AR-N 4110:2018-11  + Site specific adjustment of parameters acc. to grid-operator
<b>Ghana</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H; SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Ghana	50Hz	
<b>Georgia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Europe EN50438	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters: SE3680H, SE5000H	Europe EN50438	50Hz	* Requires StorEdge-compatible inverter

Supported inverters	Inverter country setting	Frequency	Comments
<b>Greece</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE55K, SE66.6K, SE82.8K, SE100K	Greece -> Greece Continent  Greece -> Greece Islands	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters: SE3680H, SE5000H	Greece -> Greece Continent  Greece -> Greece Islands	50Hz	* Requires StorEdge-compatible inverter
<b>Grenada</b>			
SE3000H-US – SE10000H-US	Grenada	50Hz	Can be connected to the following grid: 230/400VWYE (L-N connection)
SE9KUS,SE10KUS, SE14.4KUS, SE17.3kUS,SE43.2KUS,SE50KUS	Grenada	50Hz	Can be connected to the following grid: 230/400VWYE
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KUS, SE100KUS, SE120KUS	Grenada	50Hz	Can be connected to the following grid: 230/400VWYE  SE20kUS limited to 16.5kW AC  SE30KUS, SE33.3KUS limited to 27.6kW AC SE66.6KUS limited to 55kW AC  SE100KUS limited to 82.8kW AC
<b>Guadeloupe</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;  SE3K-RWB,SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K,SE80K, SE82.8K, SE90K, SE100K	France	50Hz	

SE40K, SE120K	France -> France MV	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters: SE3680H, SE5000H	France	50Hz	* Requires StorEdge-compatible inverter
<b>Guatemala</b>			
SE3000H-US – SE11400H-US	USA -> Auto  USA -> 208V  USA -> 208V No  Neutral	60Hz	SE3800H-US limited to 3.3kW AC SE6000H-US limited to 5kW AC SE11400H-US limited to 10kW AC
SE9KUS, SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	USA -> 208V	60Hz	
<b>Hong Kong</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE120K	Hong Kong	50Hz	
SE33.3K, SE66.6K, SE100K	China -> China MV India -> India MV	50Hz	This inverter has a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
StorEdge three phase inverter; SE5K-RWS, SE7K-RWS,  SE8K-RWS, SE10K-RWS	Hong Kong	50Hz	
<b>Hungary</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB; SE3K, SE4K, SE5K, SE7K, SE8K, SE9K,	Hungary	50Hz	



Supported inverters	Inverter country setting	Frequency	Comments
SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K;  SE50K, SE55K, SE66.6K, SE82.8K, SE100K			
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters: SE3680H, SE5000H	Hungary	50Hz	* Requires StorEdge-compatible inverter
<b>India</b>			
SE3000H, SE4000H, SE5000H, SE6000H; SE5000, SE6000	India  * India 230V/400 Vac  India Kerala 230V/400 Vac	50Hz	*Available with SetApp enabled inverters from CPU v4.9.xx
SE5K, SE8K, SE10K, SE15K, SE17K, SE25K, SE27.6K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K	India  *India 230V/400 Vac  India Kerala 230V/400 Vac	50Hz	*Available with SetApp enabled inverters from CPU v4.9.xx
SE120K	India 277V/480 Vac		This inverter has a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
<b>Indonesia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H; SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE66.6K, SE100K, SE120K	Indonesia	50Hz	
<b>Ireland</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE6K SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K,	Ireland	50Hz	

SE33.3K, SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K			
<p>* StorEdge Inverter without backup power:</p> <p>SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H</p> <p>AC Coupled Inverter;</p> <p>SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>* AC Coupled Inverters:</p> <p>SE3680H,SE5000H</p> <p>StorEdge three phase inverter;</p> <p>SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS</p> <p>SolarEdge Home Hub inverter, Three Phase:</p> <p>SE5K-RWB48, SE8K-RWB48, SE10K-RWB48</p>	Ireland	50Hz	* Requires StorEdge-compatible inverter
<b>Israel</b>			
<p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE11.25K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE33.3K, SE50K, SE55K, SE66.6K, SE80K, SE82.8K, SE90K, SE100K, SE120K</p>	<p>Israel -&gt; Israel</p> <p>Israel -&gt; Israel –Commercial</p>	50Hz	
<p>* StorEdge Inverter without backup power:</p> <p>SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H</p> <p>AC Coupled Inverter;</p> <p>SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;</p> <p>* AC Coupled Inverters:</p> <p>SE3680H, SE5000H</p> <p>SolarEdge Home Hub inverter, Three Phase :</p> <p>SE5K-RWB48, SE8K-RWB48, SE10K-RWB48</p>	Israel -> Israel	50Hz	* Requires StorEdge-compatible inverter

Supported inverters	Inverter country setting	Frequency	Comments
<b>Italy</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB,SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K	Italy -> Italy  Italy -> Italy (No SPI)	50Hz	
SE15K, SE16K, SE17K, SE20K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K,SE55K, SE66.6K, SE82.8K, SE90K,SE100K, SE120K	Italy -> Italy  Italy -> Italy (No SPI)	50Hz	These inverters are approved for connection to the medium voltage grid according to the CEI 0-16 standard
SE33.3K, SE40K, SE66.6K, SE100K	Italy -> Italy 277V (No SPI)	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
SolarEdge Home Hub, Three Phase:  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Italy	50Hz	
<b>Jamaica</b>			
SE3000H-US – SE11400H-US	Caribbean -> Jamaica  -> 240V No Neutral Caribbean -> Jamaica  -> 220V No Neutral	50Hz	Can be connected to the following grids: 110/220V split phase (L-L connection) 240/415V WYE (L-N connection)  220V delta (L-L connection)
SE10KUS, SE20kUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KUS, SE100KUS	Caribbean -> Jamaica  -> 240V (No N)	50Hz	Can be connected to the following grid: 240/415V WYE  SE20kUS limited to 17.3kW AC  SE30KUS, SE33.3KUS limited to 28.9kW AC
<b>Japan</b>			
SE5500H-JP  SE5500H-JPJ  SE5500H AC-S	Japan 50Hz  Japan 60Hz	50/60Hz	
SE17.5K-JPI	Japan -> Japan 210V	50/60Hz	
SE25K-JP,  SE25K-JPJ  SE25K-JPH,  SE25K-JPI  SE50K-JP  SE50K-JPJ	Japan -> Japan 380V50Hz  Japan -> Japan 380V60Hz	50/60Hz	

SE33.3K-JPI4	Japan ->Japan MV 420V Japan ->Japan MV 440V	50/60Hz	
SE33.3K-JP, SE100K-JP	Japan -> Japan MV480V 50Hz  Japan -> Japan MV480V 60Hz	50/60Hz	
SE33.3K-JPI8 SE100K-JPI SE120K-JPI	Japan -> Japan MV480V 50Hz  Japan -> Japan MV480V 60Hz	50/60Hz	
<b>Jordan</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K	United Kingdom ->GBR	50Hz	
SE33.3K, SE66.6K, SE100K	United Kingdom ->UK 480	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
<b>Kenya</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Kenya	50Hz	
<b>Korea</b>			
SE25K, SE27.6K, SE33.3K	Korea	60Hz	
<b>Kuwait</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Contact SolarEdge support	50Hz	
<b>Latvia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;	Latvia	50Hz	

Supported inverters	Inverter country setting	Frequency	Comments
SE8000H, SE10000H; SE3K, SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K;  SE55K, SE66.6K, SE82.8K, SE100K SE30K, SE33.3K			
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Latvia	50Hz	* Requires StorEdge-compatible inverter
<b>Lithuania</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE55K, SE66.6K, SE82.8K, SE100K SE30K, SE33.3K	Lithuania	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Lithuania	50Hz	* Requires StorEdge-compatible inverter
<b>Luxembourg</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;	Europe EN-50549	50Hz	

SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE27.6K, SE30K, SE33.3K;  SE55K, SE82.8K			
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H,  SE6000H, AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter:  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Europe EN-50549	50Hz	* Requires StorEdge-compatible inverter
<b>Macau</b>			
SE15K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE66.6K, SE100K, SE120K	Macau	50Hz	
<b>Malaysia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE100K, SE120K	Malaysia	50Hz	
<b>Malta</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17, SE25K, SE27.6K, SE30K, SE33.3K	United Kingdom ->GBR	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H	United Kingdom ->GBR	50Hz	

Supported inverters	Inverter country setting	Frequency	Comments
<b>Mauritius</b>			
SE4000,SE5000, SE6000; SE2200H,  SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6, SE30K, SE33.3K;  SE55K, SE82.8K	Mauritius - > < 50kW  Mauritius - > 50kw - 200kW  Mauritius - > > 200kW  *Mauritius -> 200kW  - 2MW	50Hz	*Available with SetApp enabled inverters from CPU v4.9.xx
<b>Mexico</b>			
SE3000H-US – SE10000H-US	Mexico -> 220V  Mexico -> 240V	60Hz	Can be connected to the following grids:  110/220V split phase (L-L connection)  127/220V WYE (L-L connection)  240/420V WYE (L-N connection)
SE9KUS,SE10KUS, SE17.3KUS, SE14.4KUS,SE43.2KUS, SE50KUS	Mexico -> 220V	60Hz	127/220V WYE grid only
<b>Morocco</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;  SE3K-RWB,SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K; SE50K, SE55K, SE66.6K,SE80K, SE82.8K, SE90K, SE100K,SE120K	France	50Hz	
SE33.3K,SE40K, SE66.6K, SE100K, SE120K	France -> France MV	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
<b>Namibia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE100K	South Africa	50Hz	

<b>Netherlands</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE20K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K	Netherlands 230/400V	50Hz	
SE33.3K, SE40K, SE66.6K, SE100K, SE120K	Netherlands 480V	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
Single Phase inverter for Battery without integrated battery interface (DC or AC Coupled):  SE2000H, SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H  Single Phase inverter for Battery without integrated battery interface (only AC Coupled):  SE3680H, SE5000H  Single Phase inverter for Battery with integrated battery interface (DC or AC Coupled):  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Netherlands 230/400V	50Hz	* Requires StorEdge-compatible inverter
<b>New Zealand</b>			
SE3000H, SE4000H, SE5000H, SE6000H, SE8250H, SE10000H;  SE5K-AUB, SE7K-AUB, SE8.25K-AUB, SE10K-AUB;  SE15K, SE17K, SE25K, SE30K, SE33.3K, SE50K, SE66.6K, SE82.8K, SE100K	New Zealand	50Hz	
<b>Norway</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K,	Norway	50Hz	



Supported inverters	Inverter country setting	Frequency	Comments
SE17K, SE25K, SE27.6K, SE30K SE33.3K, SE55K, SE66.6K, SE82.8K, SE100K			
SE3K, SE4K, SE5K, SE6K SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K SE33k, SE55K, SE66.6K, SE82.8K, SE100K  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Norway -> Norway Delta	50Hz	Can be connected to the following grid: 220/230V True Delta  Inverter AC power is limited; requires inverter adjustment. For details refer to the <a href="#">application note</a>
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter; SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Norway	50Hz	* Requires StorEdge-compatible inverter
<b>Panama</b>			
SE3000H-US-SE7600H-US, SE9KUS, SE17.3KUS, SE10KUS, SE20KUS, SE30KUS	Contact SolarEdge support		
<b>Peru</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE6K,SE7K, SE8K, SE9K, SE10K, SE12.5K,SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K; SE55K, SE82.8K, SE100K	Peru	60Hz	
<b>Philippines</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;	Philippines	60Hz	Can be connected to the following grids:  115/230V split phase (L-L connection)  220/380V WYE (L-N connection)  230/400V WYE (L-N connection)  240/420V WYE (L-N connection)

SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K	Philippines	60Hz	Can be connected to the following grids:  220/380V WYE  230/400V WYE  240/420V WYE
SE33.3K, SE40K, SE66.6K, SE100K, SE120K	Philippines -> Philippines MV	60Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K;  SE55K, SE82.8K	Philippines -> 230VL-L No N	60Hz	Can be connected to the following grid: 220/230V True Delta  Inverter AC power is limited; requires inverter adjustment. For details refer to the <a href="#">application note</a>
<b>Poland</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE20K, SE25K, SE27.6K, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K	Poland	50Hz	
SE66.6K, SE80K, SE100K, SE120K	Poland 480V	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H StorEdge three phase inverter:  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Poland	50Hz	* Requires StorEdge-compatible inverter

Supported inverters	Inverter country setting	Frequency	Comments
SolarEdge Home Hub inverter, Three Phase:  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48			
<b>Portugal</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K,  SE33.3K, SE40K, SE50K, SE55K, SE66.6K, SE82.8K, SE100K	Portugal	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H,  * AC Coupled Inverters: SE3680H, SE5000H  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Portugal	50Hz	* Requires StorEdge-compatible inverter
<b>Romania</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6, SE30K, SE33.3K	Romania	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H,SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H.  * AC Coupled Inverters: SE3680H,SE5000H  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS,  SE8K-RWS, SE10K-RWS	Romania	50Hz	* Requires StorEdge-compatible inverter

<b>Seychelles</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6, SE30K, SE33.3K	Mauritius	50Hz	
<b>Singapore</b>			
SE2200H,  SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6, SE30K, SE33.3K;  SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K, SE120K	Singapore	50Hz	
SE33.3K, SE66.6K, SE100K	United Kingdom -> UK 480	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
<b>Slovakia</b>			
SE2200HSE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE30K, SE33.3K, SE40K, SE50K, SE55K, SE66.6K, SE82.8K, SE100K	Slovakia -> Slovakia ZSED  Slovakia -> Slovakia SSED  Slovakia -> Slovakia VSD	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Slovakia -> Slovakia ZSED  Slovakia -> Slovakia SSED  Slovakia -> Slovakia VSD	50Hz	* Requires StorEdge-compatible inverter

Supported inverters	Inverter country setting	Frequency	Comments
<b>Slovenia</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE66.6K, SE75K, SE82.8K, SE90K, SE100K	Slovenia	50Hz	
SE40K, SE120K	Slovenia 480V	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H	Slovenia	50Hz	* Requires StorEdge-compatible inverter
<b>South Africa</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE66.6K, SE82.8K, SE100K	South Africa	50Hz	
SE33.3K, SE40K, SE66.6K, SE80K, SE120K	South Africa -> South Africa MV	50Hz	This inverter has a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200, SE3000, SE3500, SE4000, SE5000, SE6000, SE3500  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H	South Africa	50Hz	* Requires StorEdge-compatible inverter

<b>Spain</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE40K;  SE50K, SE55K, SE66.6K, SE80K, SE82.8K, SE90K, SE100K, SE120K	Spain 230/400V  Spanish Islands	50Hz	
SE33.3K, SE40K, SE66.6K, SE100K, SE120K	Spain 480V	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE3680H SE4000H, SE5000H,  SE6000H  * AC Coupled Inverters:  SE3680H, SE5000H  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Spain 230/400V  Spanish Islands	50Hz	* Requires StorEdge-compatible inverter
<b>Sri Lanka</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Sri Lanka	50Hz	
<b>St. Lucia</b>			
SE3000A-US - SE11400A-US, SE3000H-US - SE11400H-US	Caribbean -> St.Lucia	50Hz	
<b>St. Vincent</b>			
SE2200H SE3000H, SE3500H, SE3680H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K	United Kingdom -> GBR	50Hz	
<b>Sweden</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;	Sweden	50Hz	

Supported inverters	Inverter country setting	Frequency	Comments
SE3K-RWB, SE4K-RWB, SE5K-RWB, SE8.25K-RWB, SE10K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE20K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K			
SE40K, SE66.6K, SE100K, SE120K	Sweden - > Sweden 277	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H, SE3500H  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H  StorEdge three phase inverter: SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Sweden	50Hz	* Requires StorEdge-compatible inverter
<b>Switzerland</b>			
SE2200H, SE3000H, SE3500H, SE3680H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Switzerland (Schweiz)	50Hz	400V grid connection acc. to NA/EEA-NE7-CH 2020
SE2200H, SE3000H, SE3500H, SE3680H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Switzerland (Schweiz)	50Hz	400V grid connection acc. to NA/EEA-NE7-CH 2020

SE5K-RWB48, SE8K-RWB48, SE10K-RWB48			StorEdge compatible Inverter (AC- or DC-coupled) without backup power
SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K,  SE55K, SE66.6K, SE82.8K, SE90K, SE100K	Switzerland (Schweiz)	50Hz	400V grid connection acc. to NA/EEA 2014  + Site specific adjustment of parameters acc. to grid-operator
<b>Tahiti</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K	Tahiti	60Hz	
<b>Taiwan</b>			
SE3000H, SE4000H, SE5000H, SE6000H; SE2000M;  SE15K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE66.6K, SE82.8K	Taiwan	60Hz	
SE33.3K, SE40K, SE100K, SE120K	Taiwan -> Taiwan MV	60Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
SE15K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE66.6K, SE100K	Taiwan -> Taiwan  220V L-L No N	60Hz	Can be connected to the following grid: 220/230V True Delta  Inverter AC power is limited; requires inverter adjustment. For details refer to the <a href="#">application note</a>
SE120K	Taiwan -> Taiwan 440V	60Hz	
<b>Thailand</b>			
SE3000H, SE5000H;  SE5K-RWB;  SE10K, SE25K, SE27.6K, SE30K, SE33.3K, SE66.6K, SE82.8K, SE90K, SE100K	Thailand -> Thailand MEA  Thailand -> Thailand PEA	50Hz	SE25K approved by PEA only
SE100K, SE120K	Thailand -> Thailand MEA MV  Thailand -> Thailand PEA MV	50Hz	SE100K approved by PEA only  These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer



Supported inverters	Inverter country setting	Frequency	Comments
<b>Turkey</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Turkey -> Turkey  Turkey -> N. Cyprus	50Hz	
SE33.3K, SE66.6K, SE100K	Turkey -> Turkey MV	50Hz	
* StorEdge Inverter without backup power:  SE2200, SE3000, SE3500, SE4000, SE5000, SE6000, SE3500  * AC Coupled Inverter:  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  * AC Coupled Inverters:  SE3680H, SE5000H	Turkey -> Turkey  Turkey -> N. Cyprus	50Hz	* Requires StorEdge-compatible inverter
<b>Ukraine</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H,  SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE27.6K, SE30K, SE33.3K, SE50K, SE55K, SE82.8K	Europe EN50438	50Hz	
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H,  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS	Europe EN50438	50Hz	* Requires StorEdge-compatible inverter
<b>United Kingdom</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H, SE8000H, SE10000H;	United Kingdom ->GBR  United Kingdom ->  N. Ireland	50Hz	Northern Ireland Type B starts at 100 kW

SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K,  SE27.6K, SE30K, SE33.3K; SE50K, SE55K, SE66.6K, SE82.8K, SE90K, SE100K			Harmonics to 100 <sup>th</sup> level are required.
SE33.3K, SE40K, SE66.6K, SE100K, SE120K	United Kingdom -> UK 480	50Hz	These inverters have a 277/480Vac output voltage and is designed for connection to the medium voltage grid via a transformer
* StorEdge Inverter without backup power:  SE2200H, SE3000H, SE3500H, SE4000H, SE5000H, SE6000H,  AC Coupled Inverter;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  StorEdge three phase inverter;  SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS  SolarEdge Home Hub, Three Phase:  SE5K-RWB48, SE8K-RWB48, SE10K-RWB48	Europe EN50438	50Hz	* Requires StorEdge-compatible inverter
<b>Uruguay</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE82.8K	Uruguay	50Hz	
<b>United States (including Guam, Puerto Rico, Saipan and US Virgin Islands, excluding Hawaii and New York)</b>			
SE3000H-US - SE11400H-US	USA -> Auto  USA -> 240V  USA -> 240V No Neutral  USA -> 208V  USA -> 208V No Neutral  USA (Rule 21) -> Rule21 Auto  USA (Rule 21) -> Rule21 240V	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter- grid compatibility.

Supported inverters	Inverter country setting	Frequency	Comments
	USA (Rule 21) -> Rule21 240V No Neutral  USA (Rule 21) -> Rule21 208V  USA (Rule 21) -> Rule21 208V No Neutral  US NE -> ISO-NE 240V  US NE -> ISO-NE240V No-N		
<b>United States (Hawaii only)</b>			
SE3000H-US - SE11400H-US	Hawaii -> XXX Auto  Hawaii -> XXX 240V  Hawaii -> XXX 240V No Neutral  Hawaii -> XXX 208V  Hawaii -> XXX 208V No Neutral  XXX = Hawaii / Kauai / Molokai and Lanai	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter- grid compatibility.
SE9KUS, SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	Hawaii -> XXX 208V  XXX = Hawaii / Kauai / Molokai and Lanai	60Hz	
SE10KUS, SE20KUS, SE30KUS, SE33.3KUS, SE40KUS SE66.6KUS, SE100KUS	Hawaii -> XXX 277V  XXX = Hawaii / Kauai / Molokai and Lanai	60Hz	277/480V WYE grid only
<b>United States (New York only)</b>			
SE3000H-US - SE11400H-US	NY -> New-York Auto  NY -> New-York 240V  NY -> New-York 240V No Neutral  NY -> New-York 208V  NY -> New-York 208V No Neutral	60Hz	Refer to the inverter <a href="#">datasheet</a> for full inverter- grid compatibility.
SE9KUS,SE10KUS, SE14.4KUS, SE17.3KUS, SE43.2KUS, SE50KUS	NY -> New-York 208V	60Hz	
SE10KUS, SE20kUS, SE30KUS, SE33.3KUS, SE40KUS, SE66.6KUS, SE100KUS	NY -> New-York 277 V	60Hz	277/480V WYE grid only

<b>Vietnam</b>			
SE2200, SE3000, SE4000, SE5000, SE6000;  SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE3K-RWB, SE4K-RWB, SE5K-RWB;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE30K, SE33.3K, SE55K, SE66.6K, SE82.8K, SE100K, SE120K	Vietnam	50Hz	
<b>Zimbabwe</b>			
SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H;  SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE30K, SE33.3K SE27.6K	Zimbabwe	50Hz	