# Sungrow Inverter Compliance to AS/NZS 4777.2: 2020 Procedure

#### Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

### 1. Background

With the new standard AS/NZS 4777.2:2020, which will supersede the current AS4777.2:2015, - Grid Connection of Energy Systems via Inverters Part:2 Inverter Requirements was released in 2020. Inverters that are not certified to the new 2020 standard by 18<sup>th</sup> December 2021, may not be able to be connected to the utility grid in Australia.

Please notice that a minimum software version is needed for inverters to be certified.

This document outlines the necessary procedure required to ensure compliance of Sungrow inverter range with AS/NZS 4777.2:2020.

The following Sungrow inverter series are relevant to this document

#### - PV Inverter

Model: SG2K-S, SG2K5-S, SG3K-S Firmware version: SG2K-S\_SG2K5-S\_SG3K-S\_CrysG2S\_V31\_20211202 Model: SG3K-D, SG5K-D Firmware version: SG3K-D\_SG5K-D\_CrysG2D\_V31\_20211202 Model: SG8K-D Firmware version: SG8K-D\_CrysG2T\_V31\_20211202 Model: SG5.0RT, SG7.0RT, SG8.0RT, SG10RT, SG15RT, SG20RT Firmware version: BERYL-S\_B000.V000.P020-20211214 Model: SG30CX, SG50CX Firmware version: AGATE-S\_B000.V000.P004-20211116 Model: SG110CX Firmware version: AMBER-S\_B000.V000.P004-20211113.zip

#### - Hybrid Inverter

Model: SH5K-30 Firmware version: SH5K-30\_V01\_unpack\_20220124.zip Model: SH5.0RS, SH6.0RS Firmware version: SUNSTONE-H\_B000.V000.P025-20220123.zip Model: SH5.0RT, SH10RT Firmware version: SAPPHIRE-H\_B000.V000.P002-20211103

As of **18<sup>th</sup>, Dec. 2021** all inverters installed in Australia MUST meet the requirements of AS/NZS 4777.2:2020 and have one of the default Regions, listed below, activated upon commissioning:

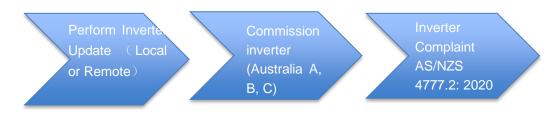
AS/NZS 4777.2:2020 Australia A AS/NZS 4777.2:2020 Australia B AS/NZS 4777.2:2020 Australia C

It is the responsibility of the installer to confirm with the relevant DNSP as to which Region needs to be activated in the area of his installation. Following table is ONLY for reference.

| Network                       | Standard       | Default power quality setting                       |
|-------------------------------|----------------|---|
| Western Power                 | AS 4777.2:2020 | Australia B   |
| Horizon Power, TasNetworks    | AS 4777.2:2020 | Australia C   |
| All other Australian networks | AS 4777.2:2020 | Australia A   |
| Customer in New Zealand       | AS 4777.2:2020 | AS/NZS 4777.2:2020 New Zealand (in Country setting) |

The default Region settings contain the required default Power Quality settings Volt-Watt, Volt-Var & Frequency Response settings and Protection settings. If changes are necessary, please refer to the knowledge base, available on request from Sungrow Technical Support.

### 2. Compliance Procedure



#### 2.1 Local Firmware Upgrade via iSolarCloud

#### Preparation

- A Wi-Fi V24/V25/V31 module or Wi-Net Dongle
- A smart phone with **iSolarCloud** APP (Android or iPhone)

#### **Firmware Upgrade**

To download the new firmware files, login to iSolarCloud APP. Click on "**More**" on the bottom right corner and select '**Firmware download**' (Figure 1). A list of options will appear. The relevant inverter / communication module and downloaded files can be found using the buttons on the top right corner.

| 12:32               | all 🗢 📒 |
|---------------------|---------|
| N                   | IORE    |
| Sungrow             |         |
| 8 Profile           |         |
| 🐣 WLAN Configurat   | ion >   |
| E Local Access      |         |
| Firmware Downlo     | ad >    |
| Uve Data            | ž       |
| 📮 Message Center    |         |
| G My Service Provid | der S   |
| 3 FAQs              |         |
| Feedback            |         |
| Settings            |         |
|                     |         |

Figure1 Firmware List

Click on the corresponding firmware from the list and press the download button on the file. A message on the bottom of the screen will be displayed once the firmware file is downloaded succeed.

| 12:32   |                  | 12:32                                      |                     |
|---|------------------|--|---------------------|
| BACK  | Q. ±             | < BACK                                     |                     |
| IRMWARE DOWNLOAD                                | ,                | SG5K-D                                     |                     |
| lease select the device model be<br>te firmware | fore downloading | Inverter                                   |                     |
| lament: Inventer                                | $\nabla$         | Once the download is<br>downloaded upgrade | package to upgrad   |
| G9.0RS  |                  | through "Local Acces<br>Update">>          | s/More/Firmware     |
| C8.0RT  |                  | SG5K_D.zip                                 |                     |
| G8KTL-M   |                  |  |                     |
| G8K3-D  |                  |  |                     |
| G8K-D   |                  |  |                     |
| GBOKTL-M  |                  |  |                     |
| OBOKTL  |                  |  |                     |
| 08.0RS  |                  |  |                     |
| G7K8-D  |                  |  |                     |
| 997K5-D   |                  |  |                     |
| 5G7K-D  |                  |  |                     |
| SG75TX  |                  |  |                     |
| 5G75CX  |                  |  |                     |
| 907.6RS-US                                      |                  | SCEK D vio Do                              | wnload Successful   |
| SG7.0RT   |                  | 305K_0.20 00                               | milliodu ouccessiul |

Figure 2 Firmware List

To filter between firmware for various inverters and communication modules, use the filter option and then select the relevant type (Figure 4 and Figure 5)

- Inverter Grid-Connected Inverters
- Energy Storage System Hybrid Inverters
- Data Logger Loggers
- **Communication Module** Wi-Fi Dongles

| < BACK  | Q <u>+</u> | < BACK                |
|---|------------|-----------------------|
| FIRMWARE DOWNLOAD                                       |            | FILTER                |
|   |            | Device Type           |
| Please select the device model before d<br>the firmware | ownloading | Inverter 🥥            |
| Current: Inverter                                       | V          | Data Logger           |
| SG9.0RS   |            | Energy Storage System |
| 309.0R5   |            | Communication Module  |
| SG8.0RT   |            |                       |
|   |            |                       |
|   |            |                       |

Figure 4 Firmware List

| Figure 5 | 5 Firmwar | e File |
|----------|-----------|--------|
|----------|-----------|--------|

Figure 3 Firmware File

After the firmware file download is completed, it must be uploaded by logging in to the inverter through local access. For a detailed guide on local access methods, please click below.

• Local Access Methods Guide

Change the Wi-Fi network on your mobile phone from your home network to the Sungrow inverter network (network starting with SG). Open iSolarCloud app again and click 'Local Access'  $\rightarrow$  select WLAN access  $\rightarrow$  enter the 'admin' for the account and "**pw8888**" for the password  $\rightarrow$ click 'Login'. (Figure 6).

| 12:32                  | all 🗢 💽 |              |
|------------------------|---------|--------------|
| MORE                   |         |              |
| Sungrow                |         |              |
| <mark>8</mark> Profile |         | < back       |
| WLAN Configuration     | >       | LOCAL ACCESS |
| 😔 Local Access         | >       |              |
| Firmware Download      |         |              |
| 5 Live Data            |         | S WLAN       |
| Message Center         |         |              |
| My Service Provider    |         | Bluetooth    |
| 7 FAQs                 |         |              |
| 🔀 Feedback             |         |              |
| Settings               |         |              |

#### Figure 6 Local Access

Now click on the '**More**' button located on the bottom right corner of the iSolarCloud APP (Figure 7) and Select '**Update firmware**' (Figure 8).

| aysim 🕈         | 15:12<br>SG10KTL-M<br>SN:A1810071474 | ⊛ Ø 60% ■ |
|-----------------|--------------------------------------|-----------|
| shutdown        |                                      |           |
| 0 W             |                                      |           |
|                 |                                      | (M)       |
| Current power   |                                      | 0 w       |
| Power installed |                                      | 10.0 kW   |
| Yield today     |                                      | 0.0 kWh   |
| Total yield     |                                      | 8 kWh     |
|                 |                                      |           |
|                 |                                      |           |
| Hame            | Chart                                | More      |
|                 |                                      |           |

Figure 7 Local Access

Figure 8 Device Upgrade

After that, it will display the firmware zip file. Select the corresponding firmware file and click on the '**Confirm**' button (Figure 9). Please wait about 10 to 15 minutes for the firmware upgrade.

### Clean power for all

# SUNGROW

|  | < Firmware Update                 | FIRMWARE UPDATED   |
|--|-----------------------------------|--|
| Firmman will be updated via<br>"WHET_B003V000 P003.2p"<br>CANCEL CONFIRM | 100%<br>Firmware is being updated | Otd Version: WINET-SV200.001.00.P001<br>New Version: WINET-SV200.001.00.P003<br>Update Time: 2021-05-11 09:01:57 |
| gure 9 Upload Firmware   | Figure 10 Firmware Upgrade        | COMPLETE<br>Figure 11 Upgrade<br>Successfully  |

It will display the part number before and after the update, which can help ensure the correct files have been used to update.

Regardless of the update percentage, do not quit the app or disconnect from the SG Wi-Fi until the app indicates that the upgrade is complete

Click here to watch the instruction for upgrading the firmware via iSolarCloud app.

#### 2.2 Remote Firmware Upgrades via iSolarCloud

Applicability: Sungrow Crystal G2 Series, Three Phase Residential and CX range, Single-Phase Hybrid (SH5K-20/30), Three-Phase Hybrid Range

| Inverter Type   | Communication Device |
|---|----------------------|
| Single-Phase / Three-Phase Residential<br>Range (Grid-Connect & Hybrid) | V25/V31 Wi-Fi Dongle |
| Three-Phase Commercial Range  | EyeM4, Logger1000    |

**Communication Device Requirements** 

#### **Upgrade Procedure**

The **Firmware Upgrade** option can be found in the main menu under "**Advanced**". Selecting it will allow the user to search for the plant which needs to be upgraded.

| 🍅 iSolarCloud™                                | B2003 Q |
|---|---------|
| O&M   | ✓ B2003 |
| M Home M Fault                                |         |
| () Report                                     |         |
| Curve NEW                                     |         |
| <pre>@ Advanced <math>\checkmark</math></pre> |         |
| 🔀 Settings                                    |         |
| 🗈 Firmware Update                             |         |

Firmware Update & Plant Search

On selecting the plant, the relevant device and type can be selected on the right. Please use the following guide with respect to Figure 2 to locate the device:

- Grid-Connected Inverters Inverter
- Hybrid Inverters Energy Storage System
- Loggers Data Loggers
- Wi-Fi Dongles Communication Module

| rmware Update                        |               |             |            |
|--------------------------------------|---------------|-------------|------------|
| Inverter                             | e Model V Dev | vice S/N :  | Q          |
| Inverter                             | Device S/N    | Device Type | Device Mod |
| Energy Storage System<br>Data Logger | A200          | Inverter    | SG8K-D     |
| Communication Module                 |               |             |            |

#### Device Type

Once the type has been selected, the relevant device must be selected and then click "**Firmware Update**". The clock symbol can be used to check the task history and status of the upgrade.

| _         |                |                 |               |              |             |            |            |   |
|-----------|----------------|-----------------|---------------|--------------|-------------|------------|------------|---|
| Operation | Device Name    | Current Version | Online Status | Device Model | Device Type | Device S/N | Plant Name | 3 |
| E         | SG8K-D_001_001 | Check Version   | Online        | SG8K-D       | Inverter    | A200       | 8200       |   |
| 3         | SG8K-D_001_001 | Check Version   | Online        | SG8K-D       | inverter    | A200       | 8200       |   |

Firmware Update

This will give a prompt to select the updating package. Here "**Online Update Package**" can be selecting. This option will show if there is a newer update available and will update the device to it. Thereafter, simply click "**Update**".

| Online Update P   | ackage   |            |
|-------------------|--|------------|
| S/N: B191         | ) New update package detected. U   | pdate now? |
| Local Update Pace | ckage  |            |
| Select a Firmw    | are File   |            |
|                   | age size: 60M, package format x.zip, package<br>e desired software version number. | name must  |
|                   | Cancel Update  |            |

Update Package

To proceed further with the upgrade, a password must then be entered. This password is the same as **the login password for the account**.

| w?  |
|-----|
|     |
| ust |
|     |

Login Password

A task name and a timeout period can then be selected. The timeout period is the time after which the upgrade will timeout if it is not complete.

| To als Manage                   | 2022 02 11 12 15 COSK D | In the Design of the data |
|---------------------------------|-------------------------|---------------------------|
| Task Name                       | 2020-08-11 12:45 SG5K-D | inverter kemote Update    |
| Single Device Update<br>Timeout | 1 h                     | ~                         |
|                                 |                         |                           |
|                                 |                         |                           |
|                                 |                         |                           |
|                                 |                         |                           |

Task Name & Timeout

After clicking confirm and update, the upgrade will begin. The status can then be checked using the "**Clock Option**". Clicking "**View**" will allow the user to view the exact status of each file being uploaded.

| iew Task Hi | •   |                |                 |                        |                        |          |                             |                       |                  |           |
|-------------|---|----------------|-----------------|------------------------|------------------------|----------|-----------------------------|-----------------------|------------------|-----------|
| 2020-09-01  | ~ 2020-10-01  | Device         | Гуре 🗸          | Device Model           | Goal Soft              | twar     | Q                           |                       |                  |           |
| No.         | Task Name   | Device<br>Type | Device<br>Model | Task Start<br>Time     | Task End<br>Time       | Executor | Task<br>Execution<br>Status | Success<br>Statistics | Task<br>Progress | Operation |
| I           | 2020-09-29<br>12:00 SG5K-<br>D Inverter<br>Remote<br>Update | Inverter       | SG5K-D          | 2020-09-29<br>12:00:45 | 2020-09-29<br>12:13:02 | -        | Operation<br>Completed      | 1/1                   | 1/1              | View      |

Task History & Status

To watch a step by step guide on upgrading the firmware remotely, click on the video link below:

• iSolarCloud Remote Firmware Upgrade

Please make sure the inverter with the following corresponding new firmware version after the firmware upgrade finish.

| Туре                     | Firmware Version  |  |  |  |  |
|--------------------------|---|--|--|--|--|
| SG2K-S                   |   |  |  |  |  |
| SG2K5-S                  | MDSP_CrysG2S_V31_V72<br>SDSP_CrysG2S_V31_V21<br>LCD_CrysG2S_V31_V34 |  |  |  |  |
| SG3K-S                   |   |  |  |  |  |
| SG3K-D                   | MDSP_CrysG2D_V31_V72<br>SDSP_CrysG2D_V31_V21                        |  |  |  |  |
| SG5K-D                   | LCD_CrysG2D_V31_V34   |  |  |  |  |
| SG8K-D                   | MDSP_CrysG2T_V31_V47<br>SDSP_CrysG2T_V31_V11<br>LCD_CrysG2D_V31_V34 |  |  |  |  |
| SG5.0/7.0/8.0/10/15/20RT | BERYL-S_B000.V000.P020-20211214                                     |  |  |  |  |
| SG30/50CX                | AGATE-S_B000.V000.P004-20211116                                     |  |  |  |  |
| SG110CX                  | AMBER-S_01011.01.19<br>AMBER-S_04011.01.14<br>AMBER-S_03011.01.17   |  |  |  |  |
| SH5.0RT                  | SAPPHIRE-H_01011.01.17  |  |  |  |  |
| SH10RT                   | SAPPHIRE-H_03011.01.14  |  |  |  |  |



### 3. Commission Inverter

#### 3.1 Commission via iSolarCloud APP locally

| 11:57 -7<br>● Search  | ::!! <b>?</b> 🕞    |   |                              | 11:57 <b>-</b><br>◀ Search   | ::! ? □                                   |
|---|--------------------|---|------------------------------|--|---|
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| LOCAL ACCESS  |                    | <ul> <li>Search</li> <li>✓ BACK</li> </ul>  | A2008284668                  | INITIALIZE PROTECT   | <b>FION PARAMETER</b>                     |
|   |                    | ID VERIFICATION   |                              | Country/Region   |   |
|   |                    | Account   |                              | Not Configured   |   |
| WLAN  | 0                  | admin   |                              |  |   |
|   |                    | Password  | <sup>ب</sup> ۲۰۲۰            |  |   |
| Bluetooth   |                    |   |                              |  |   |
|   |                    | VERIFICA  | TION                         |  |   |
|   |                    |   | Forgot Password              |  |   |
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GD\_202112\_Sungrow Inverter Compliance to AS\_NZS 4777.2\_2020 Procedure\_V3.0

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© Sungrow Australia Group Pty. Ltd. All rights reserved. As we continuously improving our services, changes to this document may occur without notice. If the inverter didn't upgrade to the latest firmware, it will pop up the setting failed when you select the power company according to the new AS.NZS 4777 standards.

| 12:12 <b>√</b>    | ::!! 🗢 🕞           |
|-------------------|--------------------|
| < васк            | COMPLETE           |
| POWER COMP        | ANY                |
| AS/NZS 4777.2:201 | 15                 |
| AS/NZS 4777.2:202 | 20 Australia A 🗸 🗸 |
| AS/NZS 4777.2:202 | 20 Australia B     |
| AS/NZS 4777.2:202 | 20 Australia C     |
| ENERGEX & Ergon   | Energy             |
| Jemena            |                    |
| CitiPower & Power | cor                |
| United Energy     |                    |
| AusNet Services   |                    |
| Endeavour Energy  |                    |
| Ausgrid           |                    |
| PowerWater        |                    |
| SA Power Ne       |                    |
| Horizon Powe      |                    |
| westernpowe       | tting Failed       |

#### 3.2 Commission via iSolarCloud browser remotely

Login the installer iSolarCloud account, search the plant and enter the **Settings**. Click the tick box and select the plant, then click the **Initial Grid Connection**.

| ack                | Settings   |                |                |                 |              |                | -           |                              |                      |                 |
|--------------------|------------|----------------|----------------|-----------------|--------------|----------------|-------------|------------------------------|----------------------|-----------------|
|                    | Inverter v | Device Model V | Country/Regi 🗸 | Device S/N      | Q            |                | Initial Gri | id Connection Com            | mon Parameter Settin | igs 🗸 Task List |
|                    | Plant Name | Device Name    | Initial Grid   | Device S/N      | Device Model | Country/Region | Grid Type   | Version No.                  | Device Interval      | Operation       |
| 0                  |            | SG5K-D_001_001 | Already Set    | A2 <sup>-</sup> | SG5K-D       | Australia      | 50 Hz       | CR0-1.0.5.0-AR0-<br>1.0.17.0 | B2                   | 8 6 O           |
|                    |            |                |                |                 |              |                |             |                              |                      |                 |
| Overview           |            |                |                |                 |              |                |             |                              |                      |                 |
| Device Information |            |                |                |                 |              |                |             |                              |                      |                 |
| ault               |            |                |                |                 |              |                |             |                              |                      |                 |
| lant Configuration |            |                |                |                 |              |                |             |                              |                      |                 |
| ced                |            |                |                |                 |              |                |             |                              |                      |                 |
| Settings           |            |                |                |                 |              |                |             |                              |                      |                 |
| Firmware Update    |            |                |                |                 |              |                |             |                              |                      |                 |
|                    |            |                |                |                 |              |                |             |                              |                      |                 |
|                    |            |                |                |                 |              |                |             |                              |                      |                 |

Select the **Country**, and select the **Power Pompany** AS/NZS 4777.2: 2020 Australia A o B or C. Then, click Apply Settings to finalise.

| Initial Grid | d Connection   |   |                   |                   |                    |      |         | × |
|--------------|----------------|---|-------------------|-------------------|--------------------|------|---------|---|
| No.          | Parameter Name | Numerical Term  | Data Range (min.) | Data Range (max.) | Degree of accuracy | Unit | Remarks |   |
| 1            | Country/Region | Australia $\sim$  |                   |                   |                    |      |         |   |
| 2            | Power Company  | Please Select ^   |                   |                   |                    |      | **      |   |
|              |                | AS/NZS 4777.22015<br>AS/NZS 4777.22020 Australia A<br>AS/NZS 4777.22020 Australia B<br>AS/NZS 4777.22020 Australia C<br>ENERGEX & Ergon Energy<br>Endeavour Energy<br>Ausgrid<br>Jemena |                   |                   |                    |      |         |   |
|              |                |   |                   | Apply Settings    |                    |      |         |   |

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department on 1800 786 476 or email to service@sungrowpower.com.au, Monday- Friday 9am - 5pm (AEDT).