

Optimizer Upgrade Guide for New Deployment Scenarios

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1

Preparations Before Plant Visit

Updating the FusionSolar App Version

Method 1: Download, install, and update the app from the app store.

Huawei mobile phone users: Search for **FusionSolar** in Huawei AppGallery.

iPhone users: Search for **FusionSolar** in App Store.

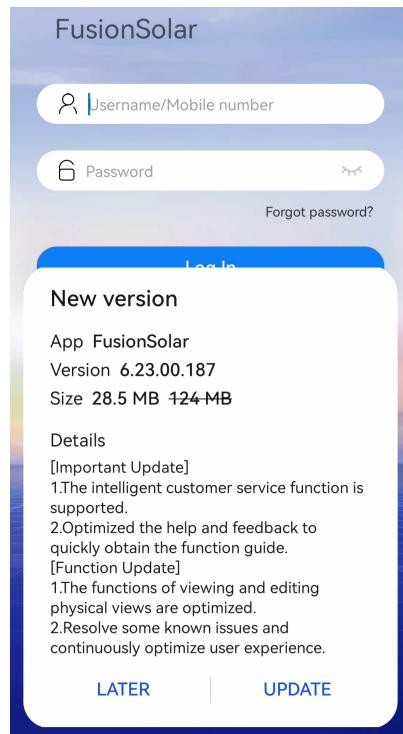
Other mobile users: Select another method.



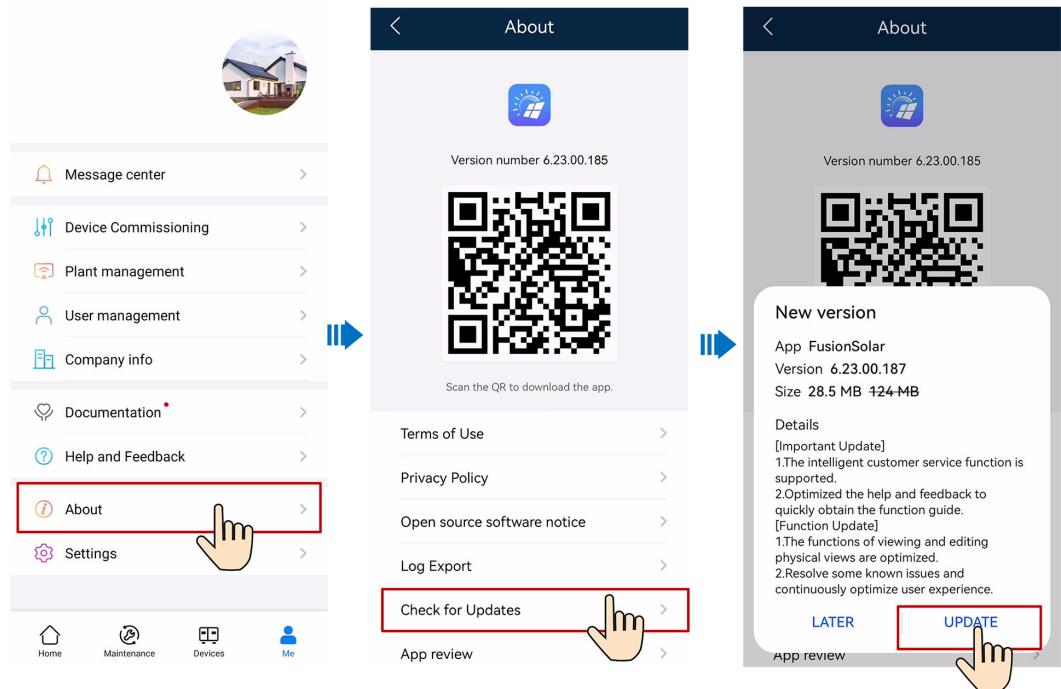
Method 2: Scan the QR code to download, install, and update the app.



Method 3: Open the FusionSolar app. A message will be displayed, indicating that a new version is available. Tap **UPDATE** to update your app.

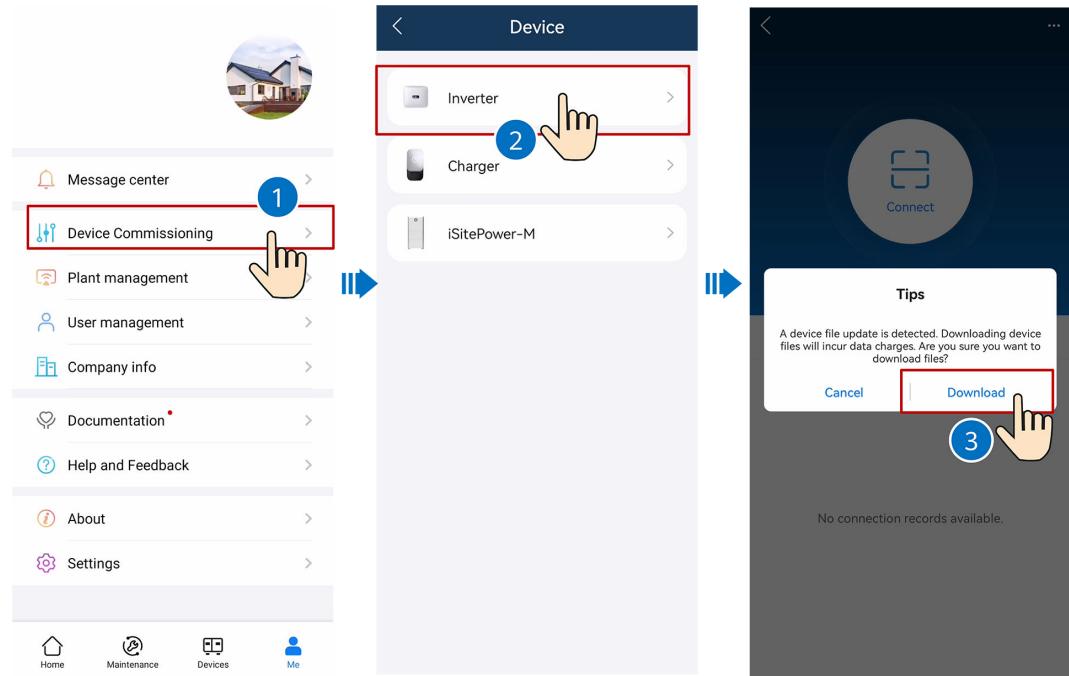


Method 4: Log in to the FusionSolar app and tap **Me > About > Check for Updates** to update the app to the latest version.

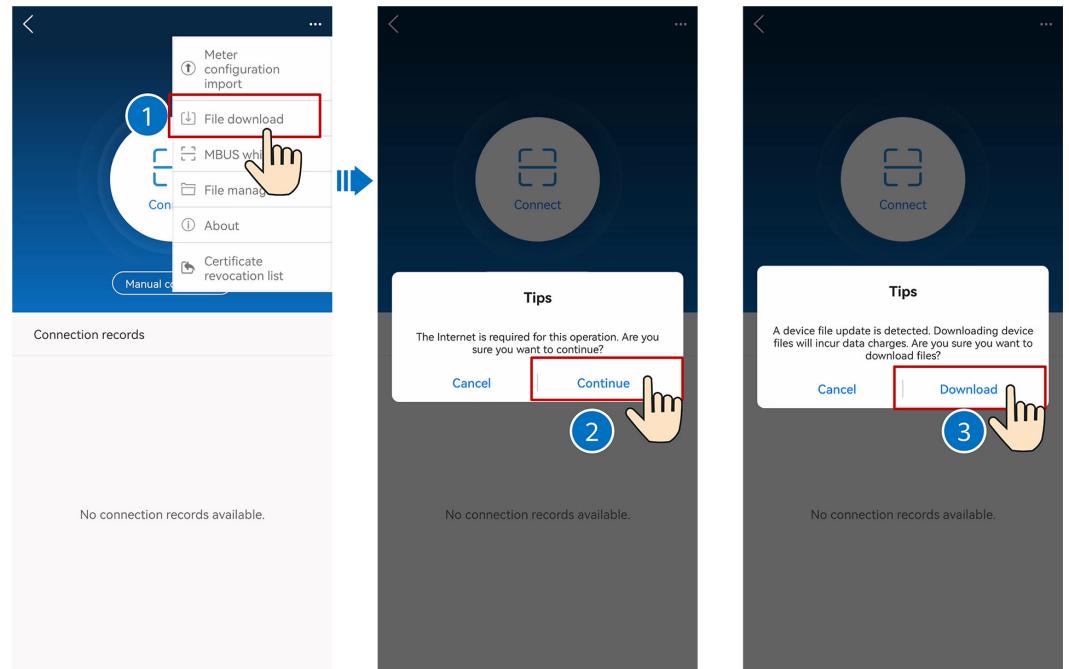


Downloading the Software Upgrade Package

Log in to the FusionSolar app and tap **Me > Device Commissioning > Inverter**. If the downloaded software upgrade package is of an earlier version, an update message is displayed, prompting you to download the latest software upgrade package.



If no update message is displayed, tap ... > **File download** to manually check for updates.



NOTE

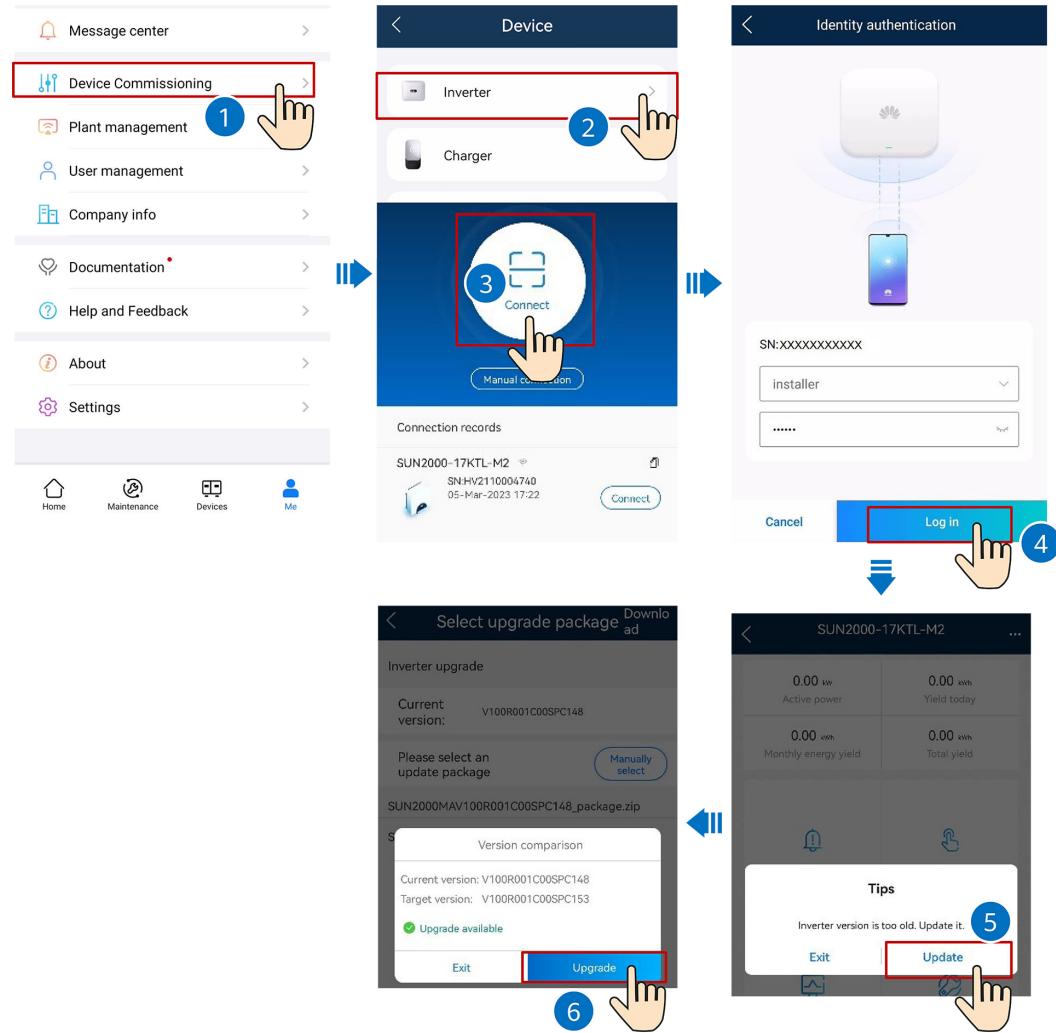
Updating the app version and downloading a software upgrade package consume a lot of data. You are advised to perform the update when the network signal is good.

2 Upgrading Devices on the App

Upgrading the Inverter Software Version

Connect the app to the WLAN hotspot of the inverter. Log in to the app and upgrade the inverter as prompted to the following software versions or later.

Inverter Model	Software Version
SUN2000L1	SUN2000L V200R001C00SPC130
SUN2000MA-M1/M2	SUN2000MA V100R001C00SPC153
SUN2000MA-M3	SUN2000MA V100R001C20SPC121

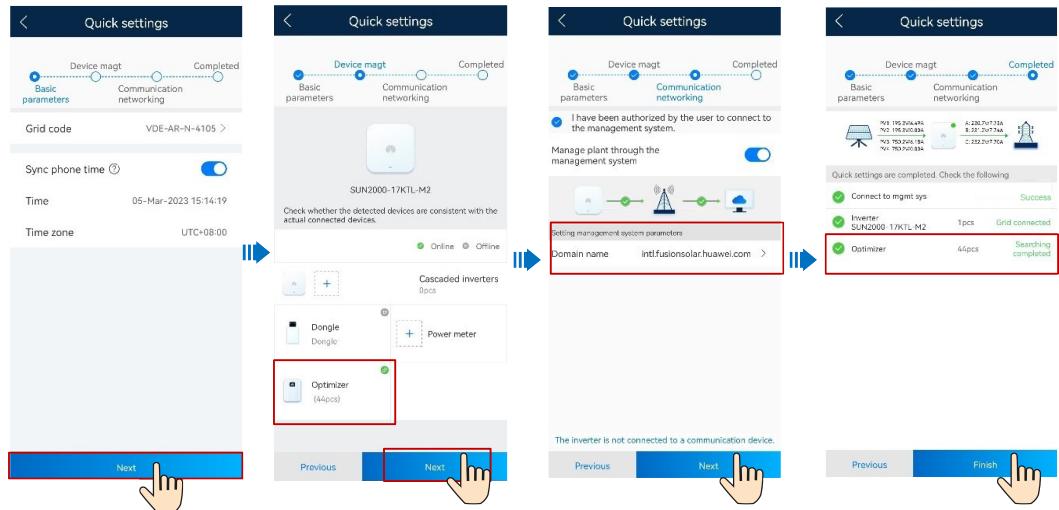


NOTE

The upgrade takes about 10 minutes. Do not leave the upgrade page until the upgrade is complete. If the upgrade fails, access the inverter commissioning screen and perform the upgrade again.

Manually Searching for Optimizers (Skipping This Step If the Optimizers Have Been Grid-Connected)

After the inverter upgrade is complete, reconnect the app to the inverter. If optimizers are newly installed, perform quick settings to search for the optimizer. The search takes about 3 minutes.



Checking the SNs and Quantity of Optimizers (New Deployment Scenario)

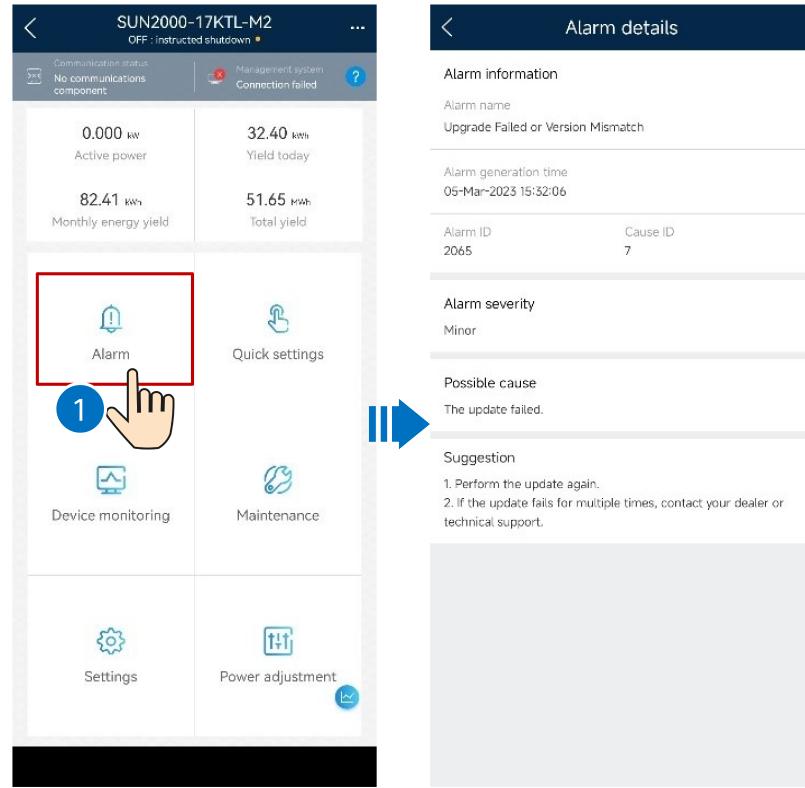
After the optimizer search is complete, ensure that the SNs and quantity of optimizers on the search screen are consistent with those of the installed optimizers.



Clearing the Inverter Alarm 2065-7 Upgrade Failed or Version Mismatch

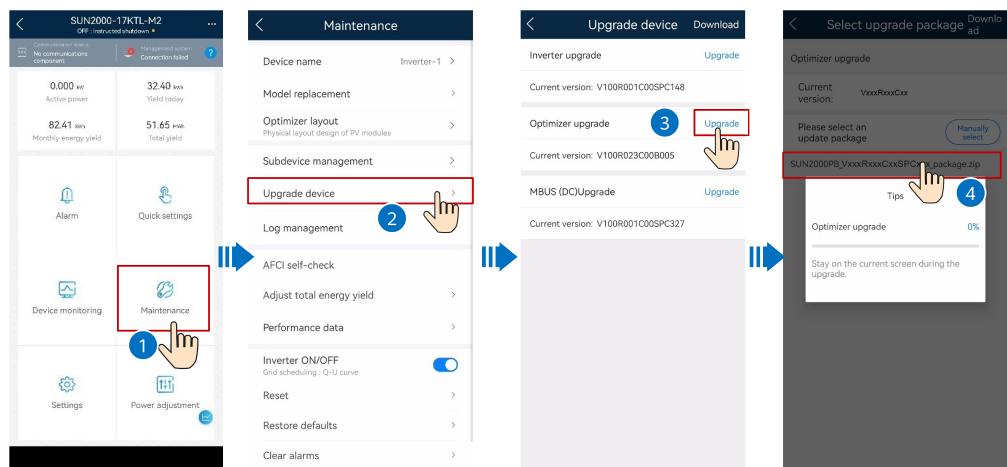
If the inverter detects that the optimizer software version is outdated, the alarm "2065-7 Upgrade Failed or Version Mismatch" will be generated and the inverter will shut down. Upgrade the optimizer software to clear the alarm by referring to the alarm handling suggestions.

Skip the following steps if the optimizer SNs and quantity have been checked, no alarm is generated on the inverter, and the inverter is running properly in grid-connected mode.



Upgrading the Optimizer Version

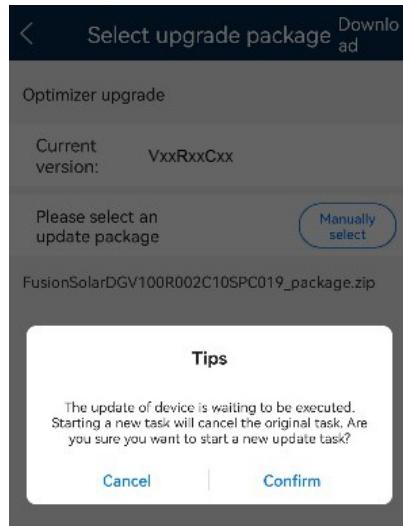
1. When the irradiance is good, reconnect the app to the inverter and upgrade the optimizers to FusionSolarDG V100R002C10SPC019 or later.



2. If the optimizer upgrade is successful, the alarm "2065-7 Upgrade Failed or Version Mismatch" will be automatically cleared, and the inverter will be reconnected to the power grid.

If the optimizer upgrade fails, upgrade the optimizer software again. If a message is displayed, indicating that the device upgrade is waiting to be executed, tap **Cancel**. In this case, ensure that the AC power supply to the

inverter is normal. When there is light, the inverter automatically upgrades the optimizer software. If no such message is displayed or an AC power failure occurs on the inverter, manually upgrade the optimizer software again.



 **NOTE**

The upgrade takes about 5 to 10 minutes (depending on the quantity of installed optimizers). Do not leave the upgrade screen until the upgrade is complete. If the inverter is not reconnected to the grid within 24 hours or other optimizer-related alarms are generated, contact GTAC technical support.

Connecting to the FusionSolar Management System

Connect the inverter to the FusionSolar management system by referring to the [FusionSolar App Quick Guide](#). You can log in to the FusionSolar management system to maintain the plant and update the device software.

Scan the QR code to access the quick guide:



3 FAQ

3.1 How Do I Locate and Handle an Offline Optimizer?

If there is an offline optimizer, locate it by referring to [SUN2000-\(600W-P, 450W-P2\) Smart PV Optimizer Quick Guide](#).

If the optimizer impedance is abnormal, contact GTAC to replace the optimizer. After the optimizer is replaced, perform the optimizer search again and ensure that the quantity of the searched optimizers is the same as that of the installed optimizers.

Scan the QR code to access the quick guide:

