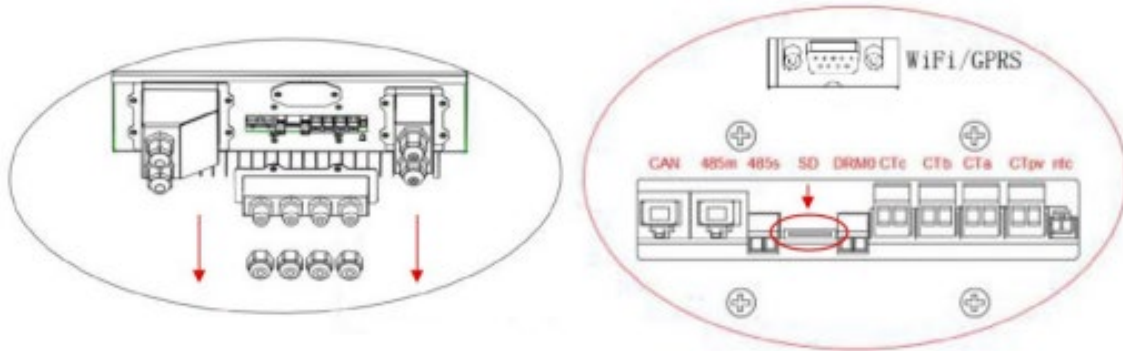


# ZCS 3000SP INVERTER UPGRADE PROCEDURE AND AZZURRO ZSX 5000S BATTERIES



## PROGRAMMING PROCEDURE VIA MICROSD

The microSD card required for the update can be removed from the slot in the central part of the underside of the inverter, recognizable by the SD silkscreen, as shown in the image.



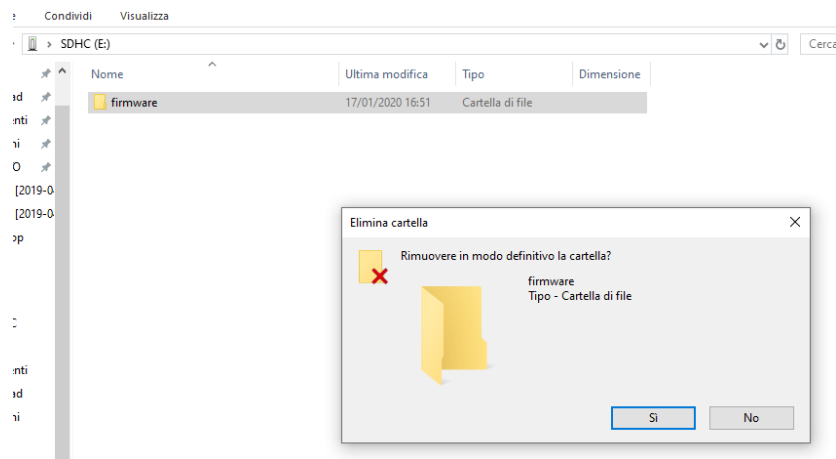
If the microSD is not present in the slot, it is possible to find one independently

1. Insert the microSD into a PC using a suitable adapter (microSD to USB).

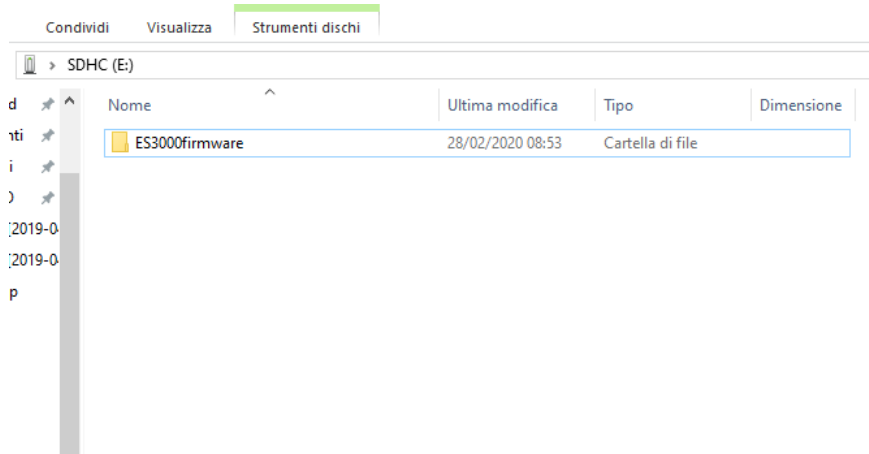


2. Delete any folders and format the microSD with FAT32 system.

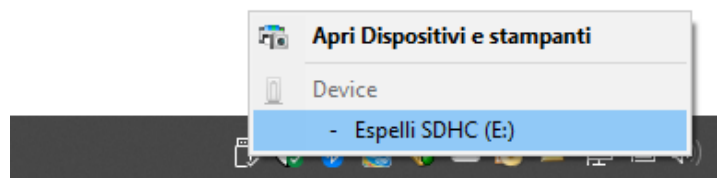
Technical note "ZCS 3000SP inverter update procedure" - Rev. 2.0 of 16/01/2026



- Copy the folder named ES3000firmware provided inside the folder Firmware 30000 SP – V3.51 (or higher) The folder must not be compressed; inside there are 4 files.



- Safely remove the device and remove the microSD from your PC.

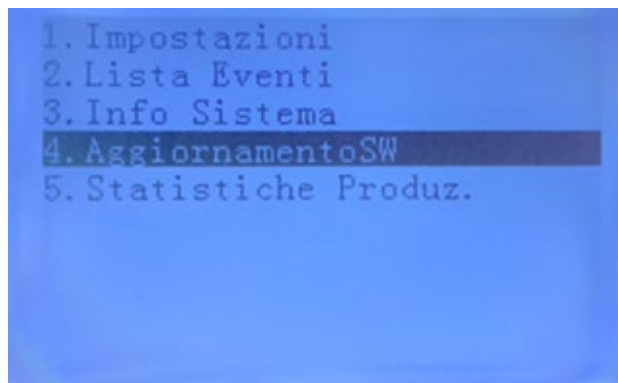


## INVERTER UPGRADE PROCEDURE

1. Insert the microSD card into the slot and press it down with light pressure until you hear a click.



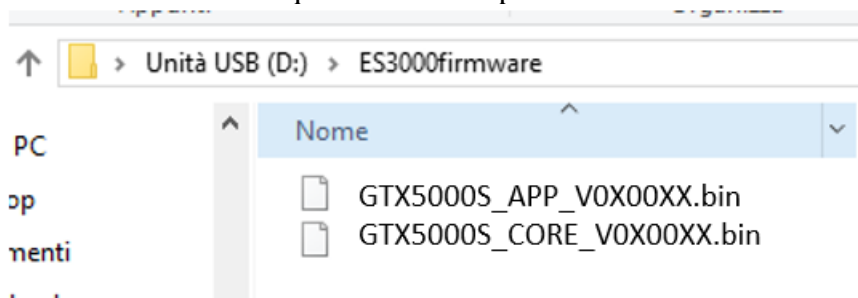
2. Start the inverter by connecting the AC line via the wall-mounted disconnect switch
3. Wait for the display to light up and, using the keys, access the main menu by pressing the ESC key (first from the left), scroll with the DOWN ARROW key and access the SOFTWARE UPDATE item by pressing the ENTER key (fourth from the left). Enter the password **0715** using the UP ARROW and DOWN ARROW keys to change the numeric value and the ENTER key to move to the next digit; press ENTER again to start the update.



4. The update process will last about 3 minutes and will take place in complete autonomy.
5. Check that the inverter finishes the update correctly and that the word ZCS INNOVATION appears on the display.; The inverter will then start normally.
5. Turn off the inverter by turning off AC power and wait for the display to turn off.

*Technical note "ZCS 3000SP inverter update procedure" - Rev. 2.0 of 16/01/2026*

6. Remove the microSD and insert it into the PC using a suitable adapter (microSD to USB).
7. Format the microSD with FAT32.
8. Download the latest firmware version for the 5000S batteries from the ZCS Azzurro website, available in the "ZSX5000S Firmware" section under the file name: "...Only for 3000 SP Inverter."
9. Extract the folder ES3000firmware from the downloaded file.
10. Copy the ES3000firmware folder onto the microSD card.
  - The folder must not be compressed.
  - It must contain two .bin files required for the update.



11. Safely remove the device and remove the microSD from your PC.
12. Insert the microSD card into the slot and press it down with light pressure until you hear a click.
13. Start the inverter by connecting the alternating line via the wall-mounted disconnect switch. Then turn on the battery(s) starting from the master to the last slave; to switch on, press the START button for 3 seconds until the LEDs light up.

**The batteries must be connected according to the following diagram using the communication cable supplied with the inverter:**

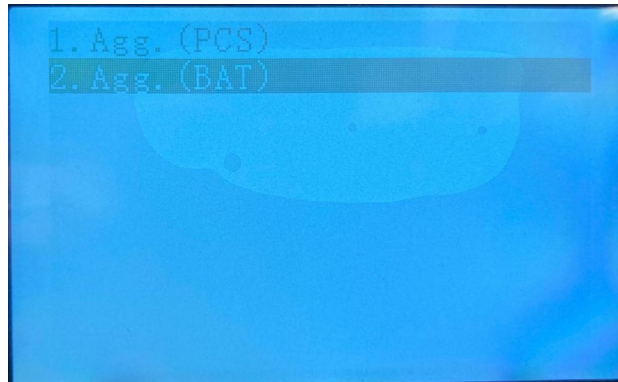
- LINK OUT of the master battery > CAN port of the inverter (RJ45-RJ9 cable)
- CAN/LINK IN of the master battery > LINK OUT of the slave battery 1
- CAN/LINK IN of slave battery 1 > LINK OUT In of slave battery 2
- ...
- CAN/LINK IN of the N-1 slave battery (penultimate) > LINK OUT of the N slave battery (last)

14. Wait for the display to light up and, using the keys, access the main menu by pressing the ESC key (first from the left), scroll with the DOWN ARROW key and access the SW UPDATE item by pressing the ENTER key (fourth from the left). Enter the password **0715** using the UP



*Technical note "ZCS 3000SP inverter update procedure" - Rev. 2.0 of 16/01/2026*

ARROW and DOWN ARROW keys to change the numeric value and the ENTER key to move to the next digit; press ENTER again. Select the Add Item (BAT) to start the update.



The display will first say "Start BMS Update" and then "BMS Update %" with the progress of the update. Once the update is complete, the batteries will restart automatically.

15. Check the new firmware version of the inverter by pressing the ESC key, scrolling with the DOWN ARROW and accessing the SYSTEM INFO menu with the ENTER key. Under SERVICE CODE V3.51 (or higher) must be reported. Under the item Battery Type the wording AZZURRO ZSX VOX00XX must be indicated; finally, the Battery Capacity must be equal to the number of batteries installed by a factor of 100.

