

Topcon FC-6000 Windows Battery Firmware update EC 1.28 BIOS 1.48

Updates made to the FC-6000 Firmware and Operating System in EC 1.28, BIOS 1.48, and OS/OS Patch version 22292 include significant updates to the low-level communication between the FC-6000 and its battery(s).



A unit that has been updated to EC 1.28/BIOS 1.48 must also have OS (patch) 22292 installed for the operating system to be able to take advantage of the bi-directional communication that the EC now has with the battery. An updated system will shut down a battery if its voltage is too low to safely charge. The voltage floor for use is 2.0V, this is 0.5V lower than the floor that was used by the recent EC 1.22. **Because of this, batteries that had been rendered unusable by EC 1.22 and EC 1.24 may be recovered by updating the Firmware and OS to the current version.**

Please note that once installed, these updates are not reversible. An updated device will update the battery firmware of the removable, and internal battery (if equipped). These updated batteries will no longer be able to be used in a unit with a BIOS/EC version below 1.48/1.28.

For additional firmware installation instructions, please refer to the linked article [FC-6000 Release Notes Firmware Update BIOS 1.48, EC 1.28 QG-FC-6000 Firmware Update BIOS 1.48 EC 1.28 Installation Instructions](#)

For additional battery information please refer to linked for more information: [TN-FC-6000 Battery Information](#)

Warranty Strategy:

If, as an immediate result of these updates, a battery ceases to be recognized by the FC-6000 unit that it was originally purchased with, Topcon will replace the Battery(s) under the device's warranty. These batteries must be returned to Topcon for analysis and qualification.