650 Boot Code Release Notes (Rev 15)

BOOT CODE RELEASE NOTES

It is mandatory to maintain version compatibility between firmware and boot code in the upgrade procedure.

• Firmware version 5.64 requires 5.60 boot code version. Boot 5.60 is only valid for firmware version 5.60 or later. For firmware and boot code versions compatibility see table below.

FIRMWARE AND BOOT CODE VERSIONS COMPATIBILITY		
FIRMWARE VERSION	**BOOT CODE VERSION**	**BOOT CODE RELEASE NOTES**
5.68	**6.00**	**Add support for 64Mb CPUs**
5.64	**5.60**	Changes in the bootware to improve communications with one router which has different IP masks.
3.78 (G650) 5.40(F650)	5.44	Changes in the bootware startup when checking the RAM Added support to G650 Version 3.78 Firmware
5.40	5.40	Changes in the configuration of COM ports at the startup. Enhancement in the master-slave communication through Ethernet to avoid communication issues when the switch auxiliary supply is cycled off and on. Changes in firmware (See firmware release notes). All models with hardware version 01, 02, 03 and 04 (See Note 1)
5.00	5.00	Changes in the startup process for COM2. Updated for use with version 5.00 or later firmware Changes in firmware (See firmware release notes). All models with hardware version 01, 02, 03 and 04 (See Note 1)
3.71	4.10	Minor changes in firmware (See firmware release notes). All models with hardware version 01, 02 and 03 (See Note 1)
3.70	4.10	Changes in firmware (See firmware release notes). All models with hardware version 01, 02 and 03 (See Note 1)
3.60	4.10	Chinese display and changes in firmware (See firmware release notes). All models with hardware version 01, 02 and 03 (See Note 1)
3.44	4.10	Changes in firmware (See firmware release notes). All models with hardware version 01 and 02 (See Note 1)
3.40	4.10	Changes in firmware (See firmware release notes). All models with hardware version 01 and 02 (See Note 1)
3.20	4.10	Changes in the startup process for COM2. All models with hardware version 01 and 02 (See Note 1)
3.00	4.00	Minor changes in firmware (See firmware release notes). All models with hardware version 01 (See Note 1)
2.20	4.00	Minor changes in firmware. All models with hardware version 00 (See Note 1) Models not included: ▪ Options 4 and 5 for inputs outputs boards ▪ Option 6 for IEC61850 protocol.
1.82	4.00	File system management enhancement in boot code 4.00 Measurements enhancement in 1.82 firmware version.

		All models, excepting: ▪ Options 4 and 5 for inputs outputs boards ▪ Option 6 for IEC61850 protocol.
2.00	3.00	New Hardware options supported (see ordering code). New communication protocols supported (IEC61850).
1.6X-1.7X-1.80	2.40	Minor changes in boot code. No change of functionality to user.
	2.35	System memory tool provided. Upgrade from 2.30 required to work with 1.61 firmware version up to 1.80.
1.3X -1.4X -1.5X	2.30	Enhanced internal watchdog usage. No change of functionality for user. Upgrade from 2.20 not required.
1.13-1.2X	2.25	Enhanced processor usage: No change of functionality for user. Upgrade from 2.20 not required.
	2.20	Updated for use with version 1.13 or later firmware
1.00-1.11	2.00	First boot code for F650.

Note (1):

Hardware Version:
HW: 00 → incorporates standard CPU board.
HW: 01 → incorporates enhanced CPU board.
HW: 02 → incorporates enhanced CPU board and enhanced hmi program supporting IEC symbols for graphical display option. (See Ordering code, N for graphical display option in firmware upgrade)
HW: 03 → incorporates enhanced CPU board and enhanced HMI supporting IEC symbols for Chinese graphical display option. (N in ordering code).
HW: 04 → incorporates HW 02, HW 03 and enhanced HMI board with USB port option. (E in ordering code).

The hardware version of the relay can be verified in the identification label or in the bottom bar of EnerVista 650 Setup software version 5.40 or later when communicating with the relay.