HS Business QUICK START MANUAL

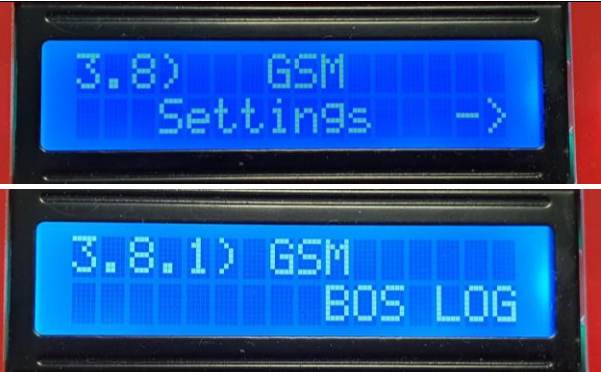|	
1. **Battery block assembly** according to manual **(not on site, but in warehouse/workshop)**. Make sure all bolts are tightened properly with torque wrench. (→ **see battery block manuals**)	
2. **Battery bank installation** according to manual (different addresses for each balancer board (0000 is not allowed), and reboot each balancer board with pushbutton). Make sure all bolts are tightened properly with torque wrench. (→ **see IOM manual**)	
3. **Check ALL screws and bolts in HS system.** All need to be tightened well.	
4. **Assemble and install master board including GSM** (→ See "Quick start manual – Master board and GSM Module installation")	
5. Switch on battery and master board MCB **and run firmware update** (→ see "Quick start manual – Master board update")	
6. **Masterboard protected settings update.** Enter password and set-up protected settings. Note that master board is delivered with lead acid system setting as default, if protected settings are not set correctly, the system will go into an error mode.	
7. Set storage type to **lithium only**	
8. **Set GSM APN** to your local APN	

9. In **GSM settings** choose the logging platform you want to use. NOTE: If **PayG** is set and confirmed it **cannot be undone** anymore and the system is locked till it receives a signal that PayG payment was made. For standard BOS AMMP logging choose "BOS LOG". For SD card logging choose "SD card".	![3.8) GSM Settings ->] ![3.8.1) GSM BOS LOG]

10. *Leave menu. **Masterboard searches for batteries now.*** Check display:
    1. For HS5k: 1P4S (4 battery blocks) needs to be shown up
    2. For HS10K 2P4S (8 battery blocks) needs to be shown up
If an error occurs, reset the balancer boards by pushing the push buttons on all balancer boards and reset the master board by pushing all three push buttons at once.	

11. Wait 5 minutes (GSM module logs in now)	
12. Menu 1.6.1: **Send IMEI number to BOS** (only once in case customer uses different SIM cards)	![1.6.1) 865691032302382]
13. Menu 1.6.3: **check last GSM communication login** (a time in minutes needs to be shown up). In case of "last comm.: never" is shown up, the GSM communication does not work out	
14. *Optional (usually not needed as preconfigured by BOS): Balancer board update; MPPT update; Inverter settings update --> ESS)*	
15. **Test run** and thermal picture + backend check for datalogging + handover to customer	