

BOS-AG HS10.000 Test procedure	tick
Serial number of HS10k case: _____	
Scan of all components completed? Otherwise to be done with barcode scanner app (MPPTs, Inverter, Case, VE.Bus Converter...)	
Visual check outside: Appropriate environment, placed indoor on solid ground, normal humidity? System not exposed to direct sunlight?	
Are there appropriate protocols for E-check referring to country-specific regulations ? This will include whole AC distribution, and PV installation.	
Visual check: Interior of the cabinet clean? Dry? Both door locks were closed? All cable chanel closed?	
Check the PV cables outside the HS system for mechanical damages. PV cables are mechanically fixed well?	
Check the cables to and from the MPPTs for correct connection and polarity on both cable ends. PV cables are mechanically fixed well?	
Batteries mechanically fixed well, Battery covers and screw isolator caps used?	
Cube fuse installed on each +48V plus pole (refer to battery assembly manual, cable shoe 11mm hole)?	
check cabling in door , all screws tightened? No disconnected cables? check if the GSM antenna cable is not pinched, and antenna is placed next to the upper lock, outside the case.	
Check the cables to and from the Inverter (AC, DC and Relay cables) for correct connection and polarity. Check Earth cables are connected and tightned inside the box (6 cables) & connected to earth outside.	
tighten all screws and terminals (do 100% test!) (AC = 4 Nm & DC = 7 Nm)	
Check Patch cables layout . From Master Board to VEBus converter and batteries with black cables, and a green cable from Inverter to VE.bus converter. Green cables looped from VE.bus converter to all inverters for parallel or 3 phase systems.	
check pipe clamp at the right side of the cabinet, for correct mounting and closure - and check the cable conduit if it is lifted up to the hinge (not for first batch, there please check if PV cables are fixed well, door can be opened and closed without danger to the cables)	
Turn on battery breaker and masterboard power supply	

Master Board is powered. Lithium initialization correct? Load output is ON? Load output can be verified when relay LED is ON and Inverter is on, both indicated by green LED.	
Appropriate Master board firmware? Appropriate balancer firmware, with "moving LED light" from left to right when pressing pushbutton 3 seconds?	
Victron Inverter Setting Upload: _____ Format: Date_File name,	
Check fans: All of them spin at higher temperature? Filters need to be cleaned?	
Check voltage output of the DC Converter using a Multimeter. Change it to 13.4V if required.	
Aux Switch triggers? Select Masterboard menu 3. Aux switch test, confirm with right button. Check that the Aux Switch button pops up AND CB turns OFF. Press aux switch button in, and switch on again.	
Check that communication with MPPTs work. Go to MPPT info on the Master Board Menu, and check that both of the MPPTs are reading the voltage of the power supply	
check VE.Bus converter (if 1 inverter found in menu for standard system or 2-3 in parallel/three phase operation)	
Remote Control Inverter: When Inverter is ON, try to reset the Master Board pressing the three buttons at the same time. The Inverter should turn off, and after few seconds turn back on.	
Switch on PV circuit breakers. Confirm there is battery charge from both MPPT chargers in masterboard menu 1.X MPPT	
Switch on AC input breaker. Does the system charge from AC in, below SOC treshold? (Use AC clamp ampere meter, or check at masterboard display/AMMP backend)	
Check HCV LCV during charge, no significant variation? For new systems, cells might be not yet balanced. For existing systems, best to check this in AMMP before service visit.	
Optional: Thermal camera check , is there any component heated up in an unusual way? Especially check screw connectors and battery packs. Balancer resistors are allowed to be warm when they have to balance a cell.	
GSM backend check: Confirm system sends data to backend with appropriate system name and settings (like 4S2P cnfiguration for 8 battery blocks)	
Check if appropriate labels are installed (Inverter, MPPT strings), and close cabinet door with both locks. Is a seal used to recognize box got opened?	
Tester date & signature: _____	