

# CHECKLIST

## Backup Power

Once installation, configuration, and commissioning have been successfully completed, this checklist must be worked through to ensure the backup power changeover function and backup power mode are operating correctly.

No.	Task	Test	Confirmation
1	The inverter, battery, and all other necessary components have been installed and assembled correctly.		
2	The backup power changeover unit has been installed and commissioned in accordance with the country-specific installation guidelines and as outlined in the documentation.	Perform loop impedance measurement in grid connected operation. The total fault loop impedance (from the inverter to the potential fault location) must be less than 5 ohms. If the limit value of 5 ohms cannot be maintained, a separate residual current circuit breaker is required for the backup power circuit as a fault protection measure.	
3	The software settings have been carried out in accordance with the „Backup power configuration“ chapter in the documentation.		
4	A warning notice has been put on the switch cabinet to warn that a backup power supply has been installed.		
5	Start the inverter in grid power feed operation.	Check whether the inverter starts in grid power feed operation and a power shift takes place. (Test duration 6 minutes).	
6	Disconnect the PV system from the public grid. This can be effected using a disconnecting device in the upstream AC path or the disconnecting devices (e.g. NH fuse) of the building connection. The disconnection must occur before the Smart Meter (grid side). Sufficient energy from the battery or the PV modules is required for the test.	Check whether the inverter starts in stand-alone operation. The changeover can take more than 1 minute. Check the fault current protection devices.	
7	Measure the voltage/frequency in the established stand-alone operation.	Set value: 230 V / $\pm 10\%$ / 53 Hz USA: 120 V / $\pm 10\%$ / 63 Hz	
8	Reconnect the PV system to the public grid.	The changeover can take more than 1 minute.  Only then may the inverter resume grid power feed operation. This may take several minutes due to national requirements (test duration 6 minutes).	

**I hereby confirm that the backup power changeover function and backup power mode are operating correctly.**

Ort, Datum

Unterschrift

