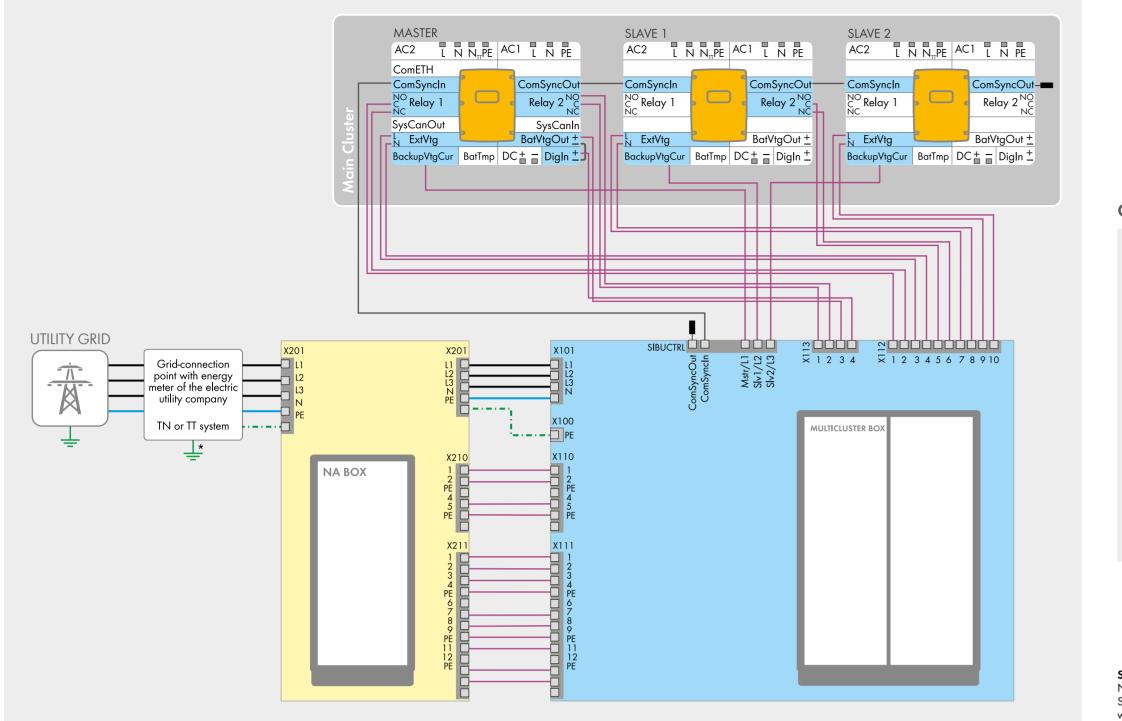
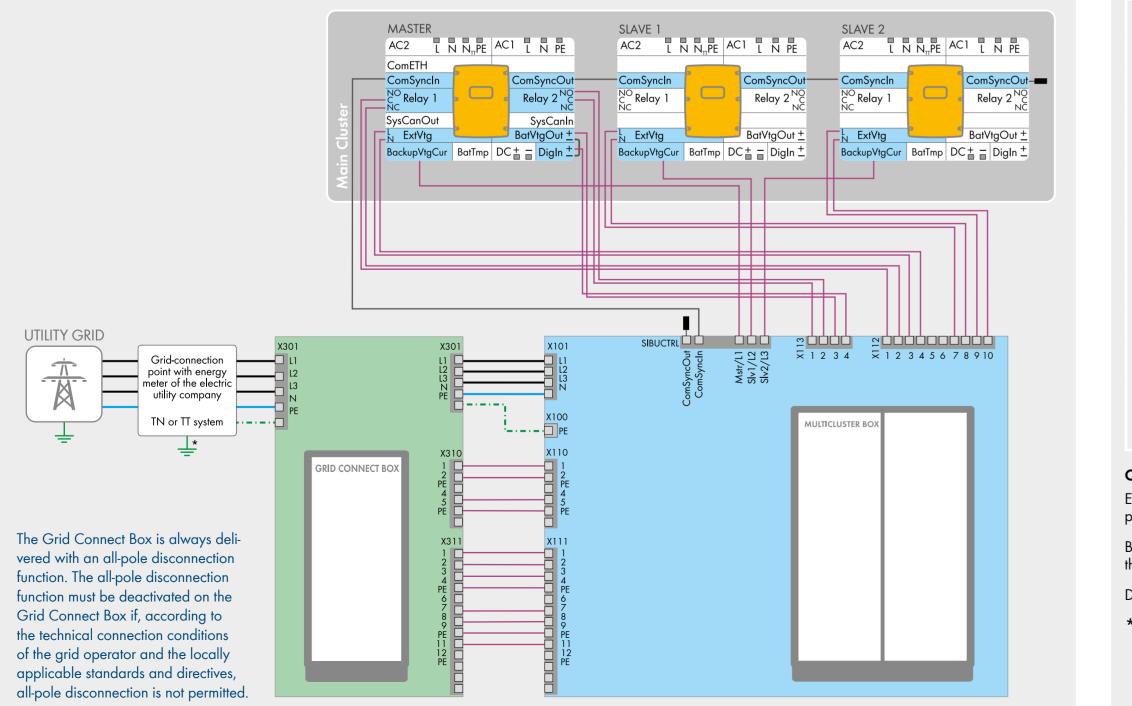
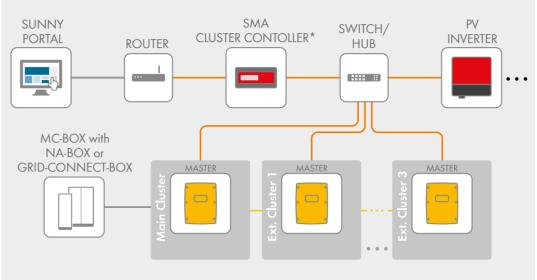
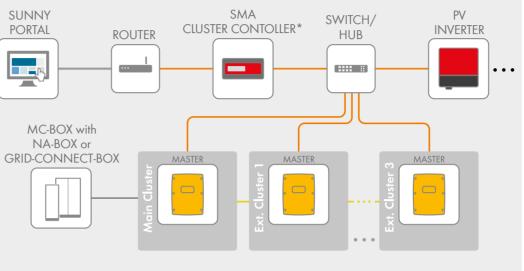
CIRCUITRY OF NA-BOX WITH MULTICLUSTER-BOX AND MAIN CLUSTER



CIRCUITRY OF GRID-CONNECT-BOX WITH MULTICLUSTER-BOX AND MAIN CLUSTER







Niestetal SMA Online Service Center: www.SMA-Service.com

LEGEND

Comment: page 2

* Ground the Multicluster system at the grid-connection point in accordance with the local standards and directives.



COMMUNICATION PRINCIPLE

*As an alternative to the SMA Cluster Controller, the Sunny WebBox can also be connected via a RS485 bus. To this end, the master of each cluster must be equipped with a SI-COMSMA-NR retrofit kit.

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MC-BOX-12-3-20_IAA-en-13 | Version 1.3

ENGLISH

SCHEMATIC DIAGRAM FOR MULTICLUSTER BOX

Line conductor

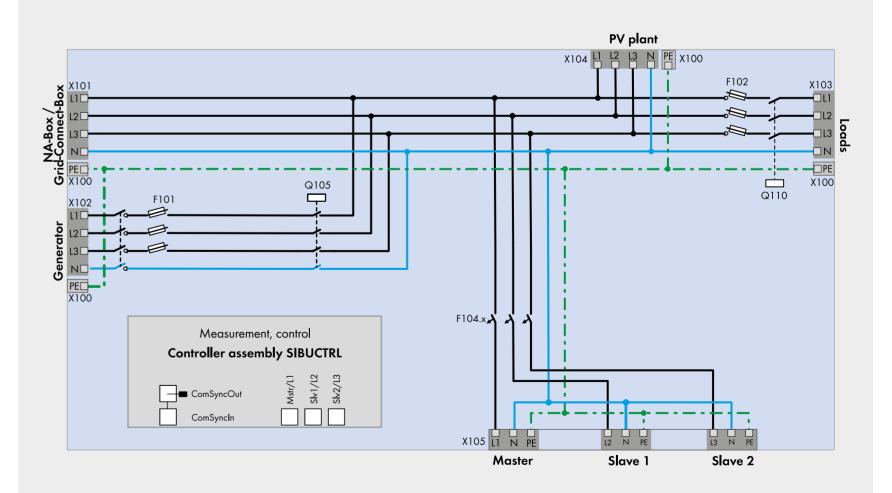
- Neutral conductor
- Grounding conductor
- Control and measurement signal cable
- Data cable for internal communication of the clusters
- Data cable for multicluster communication
- WAN
- Speedwire
- Terminator

Sunny Island

Extension cluster circuitry: see

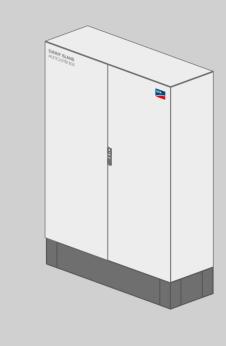
Bridge DigIn- and BatVtg- on the master of the main cluster.

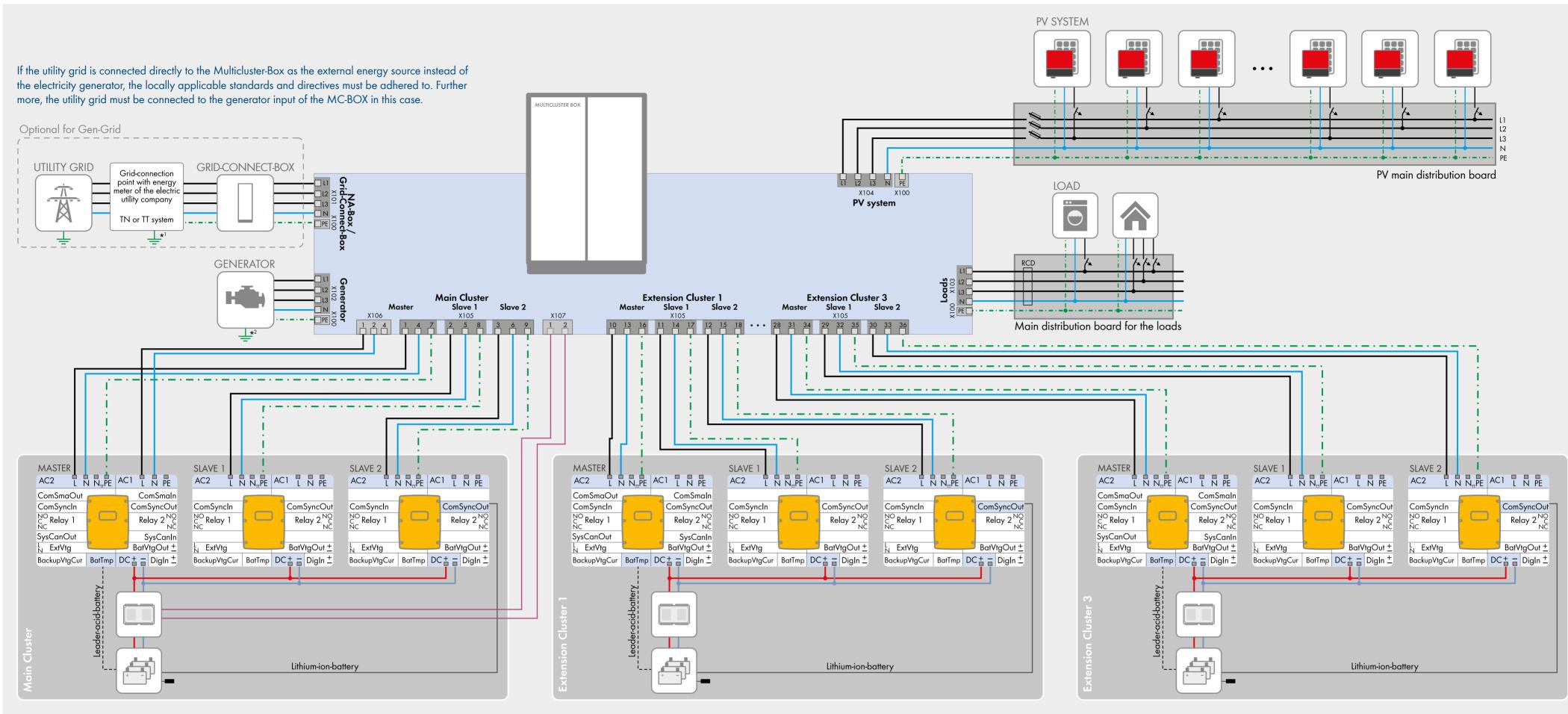
Data cable length max. 30 m



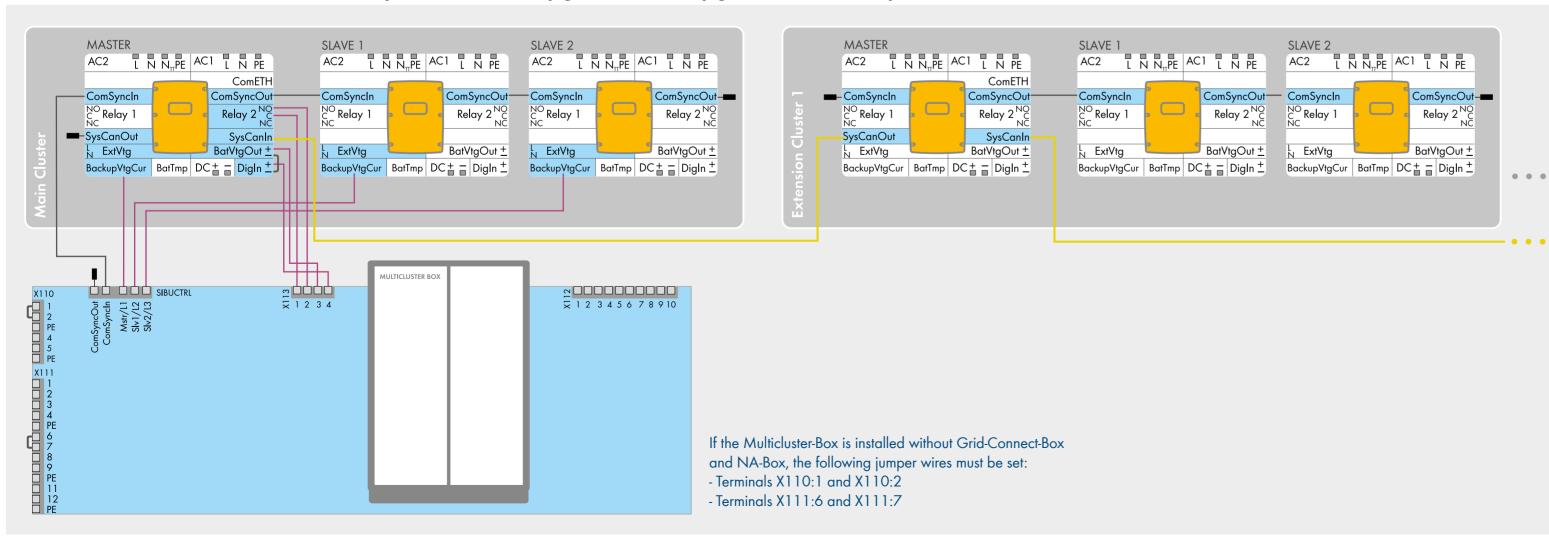
Fuse	Fuse type	Application	Supply line from
F101	NH1 200 A	Generator	-
F102	NH1 200 A	Load	-
F104.x	Circuit breaker C40	Sunny Island	-

Installation - Circuitry Overview **MULTICLUSTER-BOX 12.3-20**

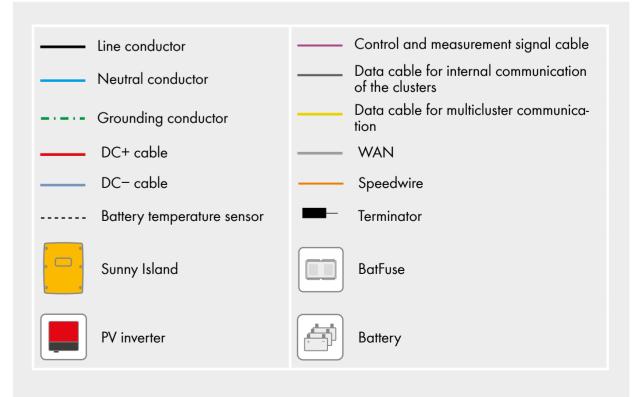




DATA AND CONTROL CABLE CIRCUITRY – for systems with electricity generator or utility grid connected directly to the Multicluster-Box







Comment:

Bridge **DigIn-** and **BatVtg-** on the master of the main cluster. Data cable length max. 30 m

- *1 Ground the Multicluster system at the grid-connection point in accordance with the local standards and directives.
- \star^2 If a generator is used, ground the multicluster system at the generator.