



## RCD Information for Sigenenergy inverters

Hereby confirms, that the following inverters:

SigenStor-5S-5; SigenStor-5S-8; SigenStor-5S-10; SigenStor-5S-13; SigenStor-5S-16;  
SigenStor-6S-8; SigenStor-6S-10; SigenStor-6S-13; SigenStor-6S-16; SigenStor-6S-24.

have a residual current monitoring unit (RCMU) integrated inside which complies with the requirements of IEC 62109-1 and IEC 62109-2.

When the residual current exceeds the preset threshold (see below table), the inverter will disconnect within the time limit to protect against possible electric shock and fire hazard. This value is set according to section 4.8.3.5 in IEC62109-2 as below table.

Inverter Capacity	Max. Continuous Residual Current Limit	Time to Disconnect from the Grid
Less than or equal to 30kVA	300mA	0.3s

In case of a sudden change in residual current, the inverters will disconnect from the grid within the following time specified in the table.

Residual Current Sudden Change	Max. Time to Disconnect the Inverter from the Grid
30mA	0.3s
60mA	0.15s
150mA	0.04s

An external RCD is required in some countries. The installer must check which type of RCD is required by the specific local electric codes. Installation of an RCD must always be conducted in accordance with local codes and standards. Sigenenergy recommends the use of a type-A RCD. Unless a lower value is required by the specific local electric codes, Sigenenergy suggests an RCD rating as below table.

Sigen Energy Storage Model	Recommended External Type A RCD Rating
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SigenStor-5S-5; SigenStor-5S-8; SigenStor-5S-10; SigenStor-5S-13; SigenStor-5S-16; SigenStor-6S-8; SigenStor-6S-10; SigenStor-6S-13; SigenStor-6S-16; SigenStor-6S-24.	100mA
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**Sigenergy**  
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