

To correctly install the BRC Power Optimizers M500 and to avoid problems from the very beginning, please note the following instructions:

- 1. Do not perform any short circuit tests in plants where Power Optimizer M500 are installed! They might be damaged.
- 2. If **isolation measurements are performed in plants with Power Optimizer M500 installed**, please ensure that the measuring instrument **does not perform a short circuit test**! A simple isolation test without performing a short circuit test is possible. (Take care of separating the poles during the isolation test) *The automatic function of some instruments also performs a short circuit test!*
- 3. If an **inverter with a MPP input current (I**_{MPP}) of more than 16A is used, it is not allowed to install the Power Optimizer M500 at every pv module. In this case it is only allowed to equip a maximum of 50% of all pv modules of each string with a Power Optimizer M500.

You can check if this is necessary with our inverter checker: https://brc-solar.de/power-optimizer/wechselrichter-checker/

4. Do not use the Power Optimizer M500 if strings or pv modules are connected in parallel! To avoid this situation, please connect all shaded pv modules to a separate string without a parallel connection. This string can then be equipped with the Power Optimizer M500.

In case of any further questions regarding those cases, please contact the support of BRC

(Tel.: <u>+49 7243 924 1486</u> / E-Mail: <u>support@brc-solar.de</u>).

5. Always connect the M500 optimizer according to the following sequence:

First connect the short cables to the pv module, then connect the long cables to the string.

<u>Hint:</u>

PV testing equipment cannot measure the current in a string where every module is equipped with an optimizer. This is only possible by using a current clamp during operation.







