

RCD Selections for Growatt inverters

Residual Current Device (RCD)

All Growatt inverters integrated an all-current-sensitive residual-current device(RCD), the RCD monitors AC and DC residual currents. There are 2 trip thresholds for the RCD as required by VDE 0126-1-1, sudden residual current $\geq 30\text{mA}$ will cause inverter disconnect from grid, and slow rising residual current $\geq 300\text{mA}$ will also cause inverter disconnect from grid.

External RCD device

An external RCD is required in some countries, Growatt suggest to use a Type A RCD and have an operating current between 200mA to 300mA. For inverter power rating above 15kW, we suggest to use RCD above 300mA.

Note:

For Multiple inverters, one RCD for each inverter is required.

An RCD of 30mA may easy trip due to capacitive leakage currents occurring during operation.