

## 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 100mA to 300mA. For inverter power rating above 15kW, we suggest to use RCD of 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.