



Preliminary: Declaration for the use of RCD devices

Corresponding with IEC 62109-2: 2011, a residual current monitoring unit (RCMU) is required for inverters without simple separation between the grid and the photovoltaic generator. The SUN2000 series inverters have such an integrated RCMU. Due to the inverters' circuit design, they can't feed in direct residual current into the grid.

If the standard take as a basis for the building of PV system or the grid company requests a separate RCD, a residual current device RCD type A can be used for all SUN2000 series inverters.

Regarding the internal RCMU protection limits (which is 300mA or higher according to IEC 62109-2: 2011), from SUN2000 inverters' point of view, a RCD type A with a limit of 300mA or higher would be fine (as shown on following table). With this limit a premature switch off of the external RCD would not happen.

SUN2000 inverters with type A RCD limit:

Inverter Type	Type A RCD limit
SUN2000-3/4/5/6/8/10KTL-M1	100mA
SUN2000-12/15/17/20KTL-M2	300mA
SUN2000-30KTL-M3	300mA
SUN2000-36/40KTL-M3	500mA
SUN2000-33KTL-A	300mA
SUN2000-36KTL	500mA
SUN2000-50KTL-M0	500mA
SUN2000-60KTL-M0	750mA
SUN2000-215-H0/215KTL-H3	1850mA

On behalf of
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