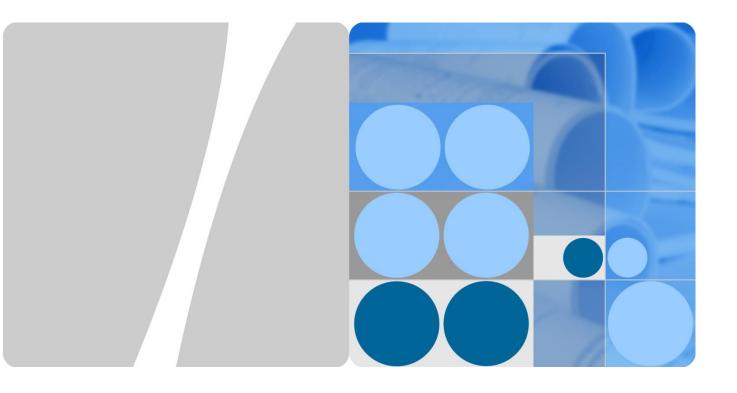
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RCD Application in HUAWEI Solar Inverter for Australia

Issue 01

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RCD Application in HUAWEI Solar Inverter for Australia

Manufacture Name: HUAWEI Technologies Co.,Ltd

Address: HUAWEI Industrial Base, Bantian, Longgang District, 518129, Shenzhen, China

Product Description: SUN2000 Series Inverter

Inverter Model: SUN2000L-2/3/4/4.6/5KTL,

SUN2000-2/3/4/4.6/5/6KTL-L1,

SUN2000-5/6KTL-M0,

SUN2000-5/6KTL-M1,

SUN2000-8/10/12/15/17/20KTL-M0,

SUN2000-8/10/12/15/17/20KTL-M2

SUN2000-29.9/36KTL,

SUN2000-50KTL-M0,

SUN2000-100KTL-M1

According to 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 (Residual Current Device), 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 Model	Type A RCD Limit
SUN2000L-2/3/4/4.6/5KTL	100 mA
SUN2000-2/3/4/4.6/5/6KTL-L1	100 mA
SUN2000-5/6KTL-M0	100 mA
SUN2000-5/6KTL-M1	100 mA
SUN2000-8/10/12/15/17/20KTL-M0	300 mA
SUN2000-8/10/12/15/17/20KTL-M2	300 mA
SUN2000-29.9/36KTL	300 mA

Product Description

SUN2000-50KTL-M0	500 mA
SUN2000-100KTL-M1	900 mA