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## AS 4777.3-2005 Grid connection of energy systems via inverters - Part 3: Grid protection requirements

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### Abbreviation

AS 4777.3-2005

### Valid from

20/05/2005

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### Information provider

SAI Global

### Author

Standards Australia

### Information type

Australian Standard

### Format

PDF

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### Cited By

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### Description

This Standard specifies the requirements for grid protection devices intended to be used in inverter energy systems, with ratings up to 10 kVA for single-phase units, or up to 30 kVA for three-phase units, and for the injection of electric power through an electrical installation to the electricity distribution network.

### Scope

### Notes:

1. Although this Standard does not apply to larger systems, similar principles can be used for the grid protection of such systems.
2. These devices do not replace devices used for protection and/or isolation as required in AS/NZS 3000.
3. Although this Standard is written on the basis that the renewable energy is from a d.c. source (e.g. photovoltaic array), this Standard may be used for systems where the energy is from a variable a.c. source (e.g. wind turbine or micro-hydro system) by appropriate changes to the tests.
4. This Standard does not include EMC requirements. These requirements are mandated by the Australian Communications Authority (ACA). Users attention is drawn to Australian Communications Authoritys document Electromagnetic Compatibility - Information for suppliers of electrical and electronic products in Australia and New Zealand for guidance.

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- [AS/NZS 3000:2007](#)

AS 4777.3-2005 is cited by AS/NZS 3000:2007 Electrical installations (known as the Australian/New Zealand Wiring Rules)

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