



Insulation Resistance Detection of SolarEdge Inverters

The SolarEdge inverters to which this declaration applies (see below) are transformer-less inverters and therefore do not provide galvanic separation between DC and AC during operation.

The inverters have redundant relay protection which provides the galvanic separation when inverter is off or detects a faulty situation.

The inverters are further equipped with an array insulation resistance detection circuit, which verifies that the insulation resistance is higher than 600kΩ for single phase inverters and 350kΩ / 700 kΩ / 1MΩ for three phase inverters (value depends on inverter model and local regulation) (and, therefore, the leakage current is lower than 1mA) before connecting to the grid.

Therefore, up to six SolarEdge inverters can be connected in a single PV system without exceeding the 6mA total leakage current.

Inverter Type	Model
1 phase	SE2200
1 phase	SE3000
1 phase	SE3500
1 phase	SE4000
1 phase	SE5000
1 phase	SE6000
1 phase	SE2200H
1 phase	SE3000H
1 phase	SE3500H
1 phase	SE3680H
1 phase	SE4000H
1 phase	SE5000H
1 phase	SE6000H
3 phase	SE4K
3 phase	SE5K
3 phase	SE7K
3 phase	SE8K
3 phase	SE9K
3 phase	SE10K
3 phase	SE12.5K
3 phase	SE15K
3 phase	SE16K
3 phase	SE17K
3 phase	SE25K
3 phase	SE27.6K
3 phase	SE33.3K

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(Place)

(Date)

(Meir Adest)