Abstract:
The quantity of installed photovoltaic (PV) systems in the German distribution grid is still increasing. In some areas the installed PV capacity exceeds 5 kWp [SPR-13] per house connection (HC). Therefore the load flow changes its characteristics and leads to new requirements for the grid. In some areas the power feedback is higher than the delivery and the installed PV capacity becomes the decisive factor for grid planning. This paper discusses the impact of PV systems on the flicker level. The focus hereby is on the correlation between the flicker level and the grid voltage and the meteorological parameters. Different approaches to investigate if there is an influence of PV systems on the flicker are taken into account. Furthermore an investigation if the normative limit is exceeded will be shown.

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