

# Certificate

**Applicant:** **sonnen GmbH**  
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im Innovationspark Allgäu  
87499 Wildpoldsried  
**Germany**

**Product:** **Battery storage system with PV input**

<b>Model:</b>	<b>sonnenBatterie hybrid 9.53</b>					
	<b>9.53/2.5</b>	<b>9.53/5</b>	<b>9.53/7.5</b>	<b>9.53/10</b>	<b>9.53/12.5</b>	<b>9.53/15</b>
<b>Rating:</b>	<b>1,1kW</b>	<b>2,5kW</b>	<b>3,3kW</b>			

## Intended use:

Automatic disconnection device with single-phase mains surveillance for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter.

## Applied standards and guidelines:

### SOP-9-1\_09 GCC Certification Program

Based on:

### EN 50438:2013

Requirements for the connection of micro-generators in parallel with public low-voltage distribution networks.

Default interface protection settings:

Parameter	Max. disconnection time	Min. operate time	Trip value
Over voltage stage 1	3s	-	230V + 10% 10min mean value
Over voltage stage 2	0,2s	0,1s	230V + 15%
Under voltage	1,5s	1,2s	230V - 15%
Over frequency	0,5s	0,3s	52Hz
Under frequency	0,5s	0,3s	47,5Hz

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate to the specifications for the intended use in accordance with the applied standards.

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