

# Certificate

**Applicant:** **Victron Energy B.V.**  
De Paal 35  
1351 JG Almere Haven  
**Netherlands**

**Product:** **Battery Inverter**

**Model:** **MultiGrid 12/3000/120-50, MultiGrid 24/3000/70-50,  
MultiGrid 48/3000/35-50**

## Intended use:

Automatic disconnection device with single-phase mains surveillance in accordance with NRS 097-2-1 for 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.

The inverter is fulfilling the unbalance requirement in case of multiple single phase units only when the "Color Control GX" is part of the installation. The total installation size is limited to plants up to 100kVA.

## Applied standards and guidelines:

### NRS- 097-2-1:2017, Edition 2

Grid interconnection of embedded generation

Part 2: Small-scale embedded generation

Section 1: Utility interface

The following standard over- and under-voltage parameters are implemented in the inverter in accordance with the allowed voltage range and maximum trip time of table 2:

Voltage	Trip time
$V < 78,3\%V_N$	$\leq 0,2s$
$80\%V_N \leq V \leq 85\% V_N$	$\leq 10s$
$110\%V_N < V < 115\% V_N$	$\leq 40s$
$1150\%V_N \leq V \leq 120\% V_N$	$\leq 2s$
$120\%V_N \leq V$	$\leq 0,16s$

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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