

Certificate of Conformity

By the product certificate number

No. 2620/0019-G-CER/E1

Issued to

License holder: **Victron Energy B. V.**
De Paal 35, 1351 JG Almere – Netherlands

Trademark:



Contract number: 801264

It is certified that the product:

Type of generator: **Inverter / charger with UPS functionality.**
- AC (grid): 2 inputs and 2 outputs.
- DC (batteries): 1 input and 1 output.

Family: Quattro

Models:	48/15000/200-100/100	48/10000/140-100/100	48/8000/110-100/100
Technical Data:			
Rated AC Power	15 kVA / 12 kW	10 kVA / 8 kW	8 kVA / 6.5 kW
Rated AC Voltage	230 Vac	230 Vac	230 Vac
Rated AC Frequency	50 Hz	50 Hz	50 Hz
DC Current (IN / OUT)	200 A / 350 A	140 A / 235 A	100 A / 188 A
DC Voltage (IN / OUT)	48 Vdc	48 Vdc	48 Vdc
Firmware version	2656506	2653506	2655506
Number of phases	Single Phase	Single Phase	Single Phase
Isolation transformer	Yes	Yes	Yes

Is in compliance with the regulation:

- **EN 50549-1: 2019**; Requirements for generating plants to be connected in parallel with distribution networks – Part 1: Connection to a LV Distribution Network - Generating Plants up to and including type B.

In exception to:

- **Static accuracy for Voltage related control modes stated in the clause 4.7.2.3.3 of the above-mentioned standard**
The static accuracy of the certified inverter / charger is not compliant with the clause 4.7.2.2 of the standard. According to this clause, the reactive power capability shall be provided with an accuracy of $\pm 2\%$ Smax. Per test results, the maximum deviation obtained for the static accuracy is within $\pm 3.1\%$ Smax.

Additional remark: The certified inverter / charger has just a single integrated switch. Double switching requirements stated in the clause 4.3.2 of the certified standard need to be accomplished at the connection point by means of the installation of an additional external device, as per manufacturer specification. For these products, the manufacturer recommends installing the Voltage and Frequency Relay manufactured by Ziehl, model UFR1001E.

The above-mentioned product is certified according to the standard EN 50549-1: 2019 and is valid to be installed in PV generating of type plants up to and including type A to be connected to a LV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-1:2019.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-53 based on the requirements of the UNE-EN ISO / IEC 17065.

This certificate is first issued on: 13th May 2021.

This certificate is valid until: 13th May 2029.

Madrid, 17th October 2024

Daniel Arranz Muñiz
Certification Manager

