



THE NETHERLANDS

COMMUNICATION

Concerning (1):

- approval-granted
- approval extended
- approval-refused
- approval-withdrawn
- production definitely discontinued

of a type of electrical/electronic sub-assembly (1) with regard to Regulation number 10.

Approval number: E4*10R06/02*4723*01

1. Make (trade name of manufacturer) : Victron Energy B.V.

2. Type and general commercial

description(s) ORION-Tr Smart ??/??-??A (??0W) Non-isolated

DC-DC charger

3. Means of identification of type, if marked on the vehicle/component/

separate technical unit (1)

Orion-Tr Smart 12/12-30A (360W) Nonisolated DC-DC charger

Orion-Tr Smart 12/24-15A (360W) Nonisolated DC-DC charger

Orion-Tr Smart 24/12-30A (360W) Nonisolated DC-DC charger

Orion-Tr Smart 24/24-17A (400W) Non-

isolated DC-DC charger

Location of that marking 3.1. Label at right side of the housing

4. Category of vehicle : N.A.

Name and address of manufacturer 5. : Victron Energy B.V.

> De Paal 35 1351 JG Almere The Netherlands

6. In the case of components and

separate technical units, location and

method of affixing of the approval mark 3. Screen Printing on front side

7. Address(es) of assembly plant(s)

Additional information (where 8.

applicable)

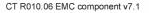
Tel. + 31 88 008 74 77 E-mail typeapproval@rdw.nl

The Netherlands www.rdw.nl see Appendix below

Type-approval Department



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P.O. Box 777

2700 AT Zoetermeer

Approval number: E4*10R06/02*4723*01

9. Technical service responsible for

carrying out the tests : Kiwa Dare B.V.

Vijzelmolenlaan 7 3447 GX Woerden The Netherlands

10. Date of test report : <u>20240143.001RPT01</u>

11. Number of test report : <u>2024 July, 02</u>

12. Remarks (if any) : see Appendix

13. Place : Zoetermeer

14. Date : 17 sept 2024

15. Signature :

Uwe Löbig

16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

17. Reasons for extension : <u>Update to the latest revision and amendment of</u>

the standard and also changes made in the BOM

<u>list</u>

⁽¹⁾ Strike out what does not apply.

APPENDIX

to type-approval communication form number: E4*10R06/02*4723*01

concerning the type-approval of an electrical/electronic sub-assembly (1) under Regulation number 10.

1. Additional information : N.A.

1.1. Electrical system rated voltage : 12 or 24 VDC V pos./neg. ground (1)

1.2. This ESA can be used on any vehicle

type with the following restrictions : None

1.2.1. Installation conditions, if any : N.A.

1.3. This ESA can be used only on the

following vehicle types : All

1.3.1. Installation conditions, if any : N.A.

1.4. The specific test method(s) used and

the frequency ranges covered to determine immunity were : Electrical disturbance test on voltage supply lines

(ESA is Not Immunity Related and therefore BCI and Radiated Immunity tests are not applicable)

1.5. Laboratory accredited to ISO 17025 and recognized by the Approval

Authority responsible for carrying out the tests

: Kiwa Dare B.V.

2. Remarks : Documentation:

Certificate

Type approval mark example

Annex 2B Schematic PCB BOM

Test report 20240143.001RPT01

Statement for application



⁽l) Strike out what does not apply.