

**THE NETHERLANDS
(N E D E R L A N D)**

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- ~~approval withdrawn~~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*10R06/01*4720*00 Corr.01

1. Make (trade name of manufacturer) : Victron Energy B.V.
2. Type and general commercial description(s) : Orion-Tr ???-???A (??0W) Isolated DC-DC converter ??????
3. Means of identification of type, if marked on the ~~vehicle~~/component/
separate technical unit ⁽¹⁾ :
 - Orion-Tr 12/12-9A (110W) Isolated DC-DC converter
 - Orion-Tr 12/12-9A (110W) Isolated DC-DC converter Retail
 - Orion-Tr 12/24-5A (120W) Isolated DC-DC converter
 - Orion-Tr 24/12-9A (110W) Isolated DC-DC converter
 - Orion-Tr 24/12-9A (110W) Isolated DC-DC converter Retail
 - Orion-Tr 24/24-5A (120W) Isolated DC-DC converter
 - Orion-Tr 24/24-5A (120W) Isolated DC-DC converter Retail
 - Orion-Tr 24/48-2,5A (120W) Isolated DC-DC converter
- 3.1. Location of that marking : Label at bottom side of housing
4. Category of vehicle : All
5. Name and address of manufacturer : Victron Energy B.V.
De Paal 35
1351 JG Almere
The Netherlands

Approval number: E4*10R06/01*4720*00 Corr.01

6. In the case of components and separate technical units, location and method of affixing of the approval mark : Screen Printing on Frontside
7. Address(es) of assembly plant(s) :
8. Additional information (where applicable) : see Appendix below
9. Technical service responsible for carrying out the tests : TÜV Rheinland Nederland B.V.
Eiberkamp 10
9351 VT Leek
10. Date of test report : 18-02-2021 and 23-03-2021
11. Number of test report : 20120203.a01 and 20120203.a02
12. Remarks (if any) : see Appendix
13. Place : Zoetermeer
14. Date : 01 March 2021
15. Signature : 
L. Vellekoop
16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.
17. Reasons for extension : NA

⁽¹⁾ Strike out what does not apply.

APPENDIX

to type-approval communication form number: E4*10R06/01*4720*00 Corr.01

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

1. Additional information : NA
- 1.1. Electrical system rated voltage : 12V or 24V 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 : NA
- 1.3. This ESA can be used only on the following vehicle types : All
- 1.3.1. Installation conditions, if any : NA
- 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were : ESA is Not Safety Related. Radiated Immunity Tests not applicable.
- 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests : TÜV Rheinland Nederland B.V.
Eiberkamp 10
9351 VT Leek
The Netherlands
2. Remarks : Valid for left-hand drive and right hand drive vehicles.
Attached to this Type Approval:
Application form.
1 Annex 2B form.
1 Statement manufacturer and authorization regarding application form.
1 EMC Test report.
Manuals
Photo's.
BOM's.
Schematic Diagrams.
PCB Layouts.
Declaration of equality

⁽¹⁾ Strike out what does not apply.

