

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



COMMUNICATION

Concerning <sup>(1)</sup>:



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- ~~approval withdrawn~~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

of a type of ~~electrical~~/electronic sub-assembly <sup>(1)</sup> 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 <sup>(1)</sup> :
  - 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

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<sup>(1)</sup> 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 <sup>(1)</sup> under Regulation number 10.

1. Additional information : NA
- 1.1. Electrical system rated voltage : 12V or 24V ~~pos./neg. ground~~ <sup>(1)</sup>
- 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

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<sup>(1)</sup> Strike out what does not apply.

