

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- ~~approval withdrawn~~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*4721*00**

1. Make (trade name of manufacturer) : Victron Energy B.V.
2. Type and general commercial description(s) : ORION-Tr ????? ??/??-??A (??0W) Isolated DC-DC ?????????
3. Means of identification of type, if marked on the ~~vehicle~~/component/ separate technical unit ⁽¹⁾ :
 - Orion-Tr 12/12-18A (220W) Isolated DC-DC converter
 - Orion-Tr 12/24-10A (240W) Isolated DC-DC converter
 - Orion-Tr 24/12-20A (240W) Isolated DC-DC converter
 - Orion-Tr 24/24-12A (280W) Isolated DC-DC converter
 - Orion-Tr 24/48-6A (280W) Isolated DC-DC converter
 - Orion-Tr Smart 12/12-18A (220W) Isolated DC-DC charger
 - Orion-Tr Smart 12/24-10A (240W) Isolated DC-DC charger
 - Orion-Tr Smart 24/12-20A (240W) Isolated DC-DC charger
 - Orion-Tr Smart 24/24-12A (280W) Isolated DC-DC charger
- 3.1. Location of that marking : Label at right side of the housing
4. Category of vehicle : All
5. Name and address of manufacturer : Victron Energy B.V.
De Paal 35
1351 JG Almere
The Netherlands

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6. In the case of components and separate technical units, location and method of affixing of the approval mark : Screen Printing on Front side
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 : 20120204.a01 and 20120204.a02
12. Remarks (if any) : see Appendix
13. Place : Zoetermeer
14. Date : 02 April 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*4721*00

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.
Photo's.
BOM's.
Schematic Diagrams.
PCB Layouts.
Declaration of equality |

⁽¹⁾ Strike out what does not apply.