THE NETHERLANDS
(NEDERLAND)

E4

JE MAINTIENDRAI

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- ~~approval withdrawn~~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

P.O. Box 777
2700 AT Zoetermeer
The Netherlands

Tel. + 31 79 345 83 02
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Type-approval Department

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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 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

RDW

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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(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.

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