

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- ~~approval withdrawn~~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: E4-10R-053813



Extension number: 00

1. Make (trade name of manufacturer) : Victron Energy
2. Type and general commercial description(s) : Phoenix Inverter 12/250 230V VE.Direct,
Phoenix Inverter 12/375 230V VE.Direct,
Phoenix Inverter 12/500 230V VE.Direct,
Phoenix Inverter 24/250 230V VE.Direct,
Phoenix Inverter 24/375 230V VE.Direct,
Phoenix Inverter 24/500 230V VE.Direct
3. Means of identification of type, if marked on the ~~vehicle~~/component/
~~separate technical unit~~ ⁽¹⁾ : Screenprinted.
- 3.1. Location of that marking : On the top cover.
4. Category of vehicle : All.
5. Name and address of manufacturer : 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 : Screenprinted on top cover.



Approval number: E4-10R-053813

Extension number: 00

7. Address(es) of assembly plant(s)
8. Additional information (where applicable) : see Appendix below
9. Technical service responsible for carrying out the tests : DARE!! Measurements
10. Date of test report : 2017 March, 14
2017 March, 14
11. Number of test report : 17C00201RPT01
17C00231RPT01
12. Remarks (if any) : see Appendix
13. Place : Zoetermeer
14. Date : 17-APR-2017
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 : --

⁽¹⁾ Strike out what does not apply.

APPENDIX

to type-approval communication form number: E4-10R-053813, Extension number: 00

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

1. Additional information : Phoenix inverter family with the input voltage levels of 12V and 24V, both with 3 output power classes: 250VA, 375VA and 500VA.
The design and PCB of the 250VA and 375VA variants are identical, the 500VA version is slightly different. The design and PCB of all 3 input voltage variants are identical, except the maximum voltage rating of the used mosfets and electrolytic capacitors, but it is very unlikely that it will affect the behavior of the EUT.
The tested variants are:
12V 375VA, 17C00201RPT01;
12V 500VA, 17C00231RPT01.
- 1.1. Electrical system rated voltage : 12, 24Vdc 230Vac, NA ground(1)
- 1.2. This ESA can be used on any vehicle type with the following restrictions : NA
- 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 : Bulk Current Injection (BCI), 20 – 200 MHz
Radiated Immunity, 200 MHz – 2 GHz
Electrical Disturbance test on Voltage supply lines
- 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests : DARE!! Measurements
2. Remarks : --

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

Approval number: E4*10R06/02*3813*01

1. Make (trade name of manufacturer) : Victron Energy B.V.
2. Type and general commercial description(s) : Inverter type:
: Inverter ??/??? 230V VE.Direct ??????
3. Means of identification of type, if marked on the ~~vehicle/component~~/ separate technical unit⁽¹⁾ :
 - Inverter 12/250 230V VE.Direct Schuko
 - Inverter 12/250 230V VE.Direct IEC
 - Inverter 12/250 230V VE.Direct UK
 - Inverter 12/375 230V VE.Direct Schuko
 - Inverter 12/375 230V VE.Direct IEC
 - Inverter 12/375 230V VE.Direct UK
 - Inverter 12/500 230V VE.Direct Schuko
 - Inverter 12/500 230V VE.Direct IEC
 - Inverter 12/500 230V VE.Direct UK
 - Inverter 24/250 230V VE.Direct Schuko
 - Inverter 24/250 230V VE.Direct IEC
 - Inverter 24/250 230V VE.Direct UK
 - Inverter 24/375 230V VE.Direct Schuko
 - Inverter 24/375 230V VE.Direct IEC
 - Inverter 24/375 230V VE.Direct UK
 - Inverter 24/500 230V VE.Direct Schuko
 - Inverter 24/500 230V VE.Direct IEC
 - Inverter 24/500 230V VE.Direct UK
- 3.1. Location of that marking : Label on rear side of the housing
4. Category of vehicle : All

Approval number: E4*10R06/02*3813*01

5. Name and address of manufacturer : 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 : Screen Printing on top of the housing
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
The Netherlands
10. Date of test report : 03-08-2023 and 03-08-2023
11. Number of test report : NL23AZCP 001 and NL23UN2S 001
12. Remarks (if any) : see Appendix
13. Place : Zoetermeer
14. Date : 07 September 2023
15. Signature : 
R.F.R. Clement
16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.
17. Reasons for extension : Design and documentation update including update to ECE revision 10R-06.
Change of assembly plant.
Change of name: "Phoenix" left out

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APPENDIX

to type-approval communication form number: E4*10R06/02*3813*01

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

- | | | | |
|--------|--|---|---|
| 1. | Additional information | : | |
| 1.1. | Electrical system rated voltage | : | 12 or 24 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 | : | Not applicable |
| 1.3. | This ESA can be used only on the following vehicle types | : | All |
| 1.3.1. | Installation conditions, if any | : | Not applicable |
| 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
Statement manufacturer and authorization regarding application
2 EMC Testreport
Product description
Photo's
BOM's
Schematic Diagram
PCB Layout
Declaration of name-change.
Declaration of equality |

⁽¹⁾ Strike out what does not apply.

