



THE NETHERLANDS

## 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- ~~approval withdrawn~~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\*10R06/02\*5228\*00**

1. Make (trade name of manufacturer) : MASTERVOLT
2. Type and general commercial description(s) : Mac Plus 12/48-15
3. Means of identification of type, if marked on the ~~vehicle~~/component/  
~~separate technical unit~~ <sup>(1)</sup> : Mac Plus 12/48-15  
Adding variants :  
Mac Plus 24/48-15  
Mac Plus 48/12-50  
Mac Plus 48/24-30
- 3.1. Location of that marking : On the top side
4. Category of vehicle : N.A.
5. Name and address of manufacturer : Navico Group EMEA B.V.  
Snijdersbergweg 93  
1105 AN, Amsterdam  
The Netherlands
6. In the case of components and separate technical units, location and method of affixing of the approval mark : By means of a sticker on the top side.
7. Address(es) of assembly plant(s) *CONFIDENTIAL INFORMATION*
8. Additional information (where applicable) : see Appendix below



**Approval number: E4\*10R06/02\*5228\*00**

9. Technical service responsible for carrying out the tests : Kiwa Dare B.V.  
Vijzelmolenlaan 7  
3447 GX Woerden  
The Netherlands
10. Date of test report : 2023 April, 24
11. Number of test report : 20230050RPT01
12. Remarks (if any) : The Mac Plus 12/48-15, Mac Plus 24/48-15, Mac Plus 48/12-50 and Mac Plus 48/24-30 are electronically the same, but can be configured for 12V, 24V and the power flow direction. The worst case configurations were tested. See test report.
13. Place : Zoetermeer
14. Date : 31 August 2023
15. Signature :
16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.
17. Reasons for extension : N.A.



**R.F.R. Clement**

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

## APPENDIX

### to type-approval communication form number: E4\*10R06/02\*5228\*00

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

1. Additional information : N.A.
- 1.1. Electrical system rated voltage : 12V, 24V pos./neg. ground <sup>(1)</sup>
- 1.2. This ESA can be used on any vehicle type with the following restrictions : No
  - 1.2.1. Installation conditions, if any : No
- 1.3. This ESA can be used only on the following vehicle types : N.A.
  - 1.3.1. Installation conditions, if any : N.A.
- 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were : Radiated immunity 200MHz – 2GHz  
Bulk current injection (BCI) 20 – 200MHz  
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 : Kiwa Dare B.V.
2. Remarks : Documentation:  
Certificate  
Type approval mark example  
Annex 2B  
Report  
Schematic  
PCB  
BOM  
Statement for application

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

