# EU declaration of conformity

**EU-conformiteitsverklaring**
**EU-Konformitätserklärung**
**Déclaration UE de conformité**
**Declaración UE de conformidad**
**Dichiarazione di conformità UE**

Declaration No: 10000021971_00.docx

| | |
|---|---|
| Name and address of the manufacturer:<br>Naam en adres van de fabrikant:<br>Name und Anschrift des Herstellers:<br>Nom et adresse du fabricant:<br>Nombre y dirección del fabricante:<br>Nome e indirizzo del fabbricante | **Navico Group EMEA B.V.**<br>Snijdersbergweg 93,<br>1105 AN Amsterdam<br>The Netherlands |

This declaration of conformity is issued under the sole responsibility of the manufacturer.
Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant.
Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.
La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.
La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante

Object of the declaration:
Voorwerp van de verklaring:
Gegenstand der Erklärung:
Objet de la déclaration :
Objeto de la declaración
Oggetto della dichiarazione:

| | | |
|---|---|---|
| **Mastervolt** | **81205105** | **MAC PLUS 12/12-50 IP23 (+CZone)** |
| **Mastervolt** | **81205205** | **MAC PLUS 24/12-50 IP23 (+CZone)** |
| **Mastervolt** | **81205305** | **MAC PLUS 12/24-30 IP23 (+CZone)** |
| **Mastervolt** | **81205405** | **MAC PLUS 24/24-30 IP23 (+CZone)** |
| **Mastervolt** | **81205505** | **MAC PLUS 24/24-50 IP23 (+CZone)** |
| **Mastervolt** | **81203105** | **MAC PLUS 48/12-50 IP23 (+CZone)** |
| **Mastervolt** | **81203205** | **MAC PLUS 12/48-15 IP23 (+CZone)** |
| **Mastervolt** | **81203305** | **MAC PLUS 48/24-30 IP23 (+CZone)** |
| **Mastervolt** | **81203405** | **MAC PLUS 24/48-15 IP23 (+CZone)** |

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:
Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie:
Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:
L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable :
El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:
L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

- **2014/30/EU** — **EMC Directive**
- **2011/65/EU and amendment (EU) 2015/863** — **RoHS directive**

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:
Vermelding van de toegepaste relevante geharmoniseerde normen of van de overige technische specificaties waarop de conformiteitsverklaring betrekking heeft:
Angabe der einschlägigen harmonisierten Normen, die zugrunde gelegt wurden, oder Angabe der anderen technischen Spezifikationen, in Bezug auf die die Konformität erklärt wird:
Références des normes harmonisées pertinentes appliquées ou des autres spécifications techniques par rapport auxquelles la conformité est déclarée:
Referencias a las normas armonizadas pertinentes utilizadas, o referencias a las otras especificaciones técnicas respecto a las cuales se declara la conformidad:
Riferimento alle pertinenti norme armonizzate utilizzate o riferimenti alle altre specifiche tecniche in relazione alle quali è dichiarata la conformità:

- **EN 61000-6-3: 2007 + A1:2011 + AC:2012** — Emission for residential, commercial and light-industrial environments
- **EN 61000-6-2: 2005 + AC:2005** — Immunity for industrial environments

27 October 2023



H.A. Poppelier
IPD Manager, Navico Group EMEA B.V., The Netherlands

E4

THE NETHERLANDS

# 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*10R06/02*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~~ (1) | : | Mac Plus 12/48-15<br>Adding variants :<br>Mac Plus 24/48-15<br>Mac Plus 48/12-50<br>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.<br>Snijdersbergweg 93<br>1105 AN, Amsterdam<br>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 |

JE MAINTIENDRAI
RDW

Type-approval Department

P.O. Box 777
2700 AT Zoetermeer
The Netherlands

Tel. + 31 88 008 74 77
E-mail typeapproval@rdw.nl
www.rdw.nl

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

| | | | |
|---|---|---|---|
| 9. | Technical service responsible for carrying out the tests | : | Kiwa Dare B.V.<br>Vijzelmolenlaan 7<br>3447 GX Woerden<br>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. |

(1) 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 [1] under Regulation number 10.

| | | | |
|---|---|---|---|
| 1. | Additional information | : | N.A. |
| 1.1. | Electrical system rated voltage | : | 12V, 24V ~~pos.~~/neg. ground [1] |
| 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<br>Bulk current injection (BCI) 20 – 200MHz<br>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:<br>Certificate<br>Type approval mark example<br>Annex 2B<br>Report<br>Schematic<br>PCB<br>BOM<br>Statement for application |

[1] Strike out what does not apply.

JE MAINTIENDRAI
RDW

# UK declaration of conformity

Declaration No: 10000021972_00.docx

Name and address of the manufacturer:

**Navico Group EMEA B.V.**
Snijdersbergweg 93,
1105 AN Amsterdam
The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration:

| | | |
|---|---|---|
| **Mastervolt** | **81205105** | **MAC PLUS 12/12-50 IP23 (+CZone)** |
| **Mastervolt** | **81205205** | **MAC PLUS 24/12-50 IP23 (+CZone)** |
| **Mastervolt** | **81205305** | **MAC PLUS 12/24-30 IP23 (+CZone)** |
| **Mastervolt** | **81205405** | **MAC PLUS 24/24-30 IP23 (+CZone)** |
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| **Mastervolt** | **81203305** | **MAC PLUS 48/24-30 IP23 (+CZone)** |
| **Mastervolt** | **81203405** | **MAC PLUS 24/48-15 IP23 (+CZone)** |

Name and address of the authorized Representative:

**Navico Group UK**
**Munster Simms Engineering Ltd (Whale)**
**2 Enterprise Road, Bangor, BT19 7TA**
**Northern Ireland (UK)**

The object of the declaration described above is in conformity with the relevant UK legislation:

- **SI 2016 No 1091** — **EMC Regulations 2016**
- **SI 2012 No 3032** — **RoHS Regulations 2012**

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

- **EN 61000-6-3: 2007 + A1:2011 + AC:2012** — EMC Emissions
- **EN 61000-6-2: 2005 + AC:2005** — EMC Immunity

27 October 2023



H.A. Poppelier
IPD Manager, Navico Group EMEA B.V., The Netherlands

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# CERTIFICATION TEST REPORT

CERTIFICATION TEST REPORT
23-22368-1
IGNITION PROTECTION TESTING
ON
MACPLUS DC-DC CHARGER/CONVERTER
FOR
NAVICO GROUP

**CUSTOMER:**

Navico Group (Mastervolt)
Snijdersbergweg 93
1105 AN
Amsterdam

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ilac-MRA ANAB ACCREDITED TESTING LABORATORY
AT-2826
Testing conducted in accordance with ISO 17025.

**MANUFACTURER OF TEST ARTICLE:** Navico Group
Brand: Mastervolt

**REPORT DATE:** January 15, 2024
**ACTIVITY DATE:** 11/28/23 - 1/15/24
**TECHNICIAN:** J. Lowe

**REPORT NO.:** 23-22368-1
**IMANNA JOB NO.:** 23-22368
**CUSTOMER P.O. NO.:**
**CONTRACT:** N/A
**PAGES IN REPORT:** 11

STATE OF FLORIDA

ROBERT L. WHITE, who physically appeared, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

Robert L White

SUBSCRIBED and sworn to before me this 16th day of February, 2024

William Parsons

NOTARY PUBLIC STATE OF FLORIDA
WILLLIAM PARSONS
Commission # HH 379048
Expires March 27, 2027

IMANNA shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from IMANNA's providing the service covered by the report.

IMANNA LABORATORY, Inc.
TEST BY
Robert L. White
PROJ. MANAGER