



N E D E R L A N D  
( THE NETHERLANDS )



Communication concerning the:

- type-approval
- =extension of type-approval
- =refusal of type-approval
- =withdrawal of type-approval

of a vehicle/component/separate technical unit with regard to Directive 72/245/EG, as last amended by Directive 95/54/EG.

Type-approval number: e4 \* 72/245 \* 95/54 \* 0612 \* 00

e4

Reason for extension:

020612

SECTION I.

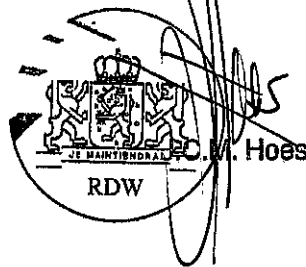
- |        |  |   |
|--------|--|---|
| 0.1.   | Make (trade name of manufacturer)  | : .. Mastervolt   |
| 0.2.   | Type and general commercial description (s)  | : battery chargers, brand Mastervolt, types:<br>- IVO Smart 12/10<br>- IVO Smart 24/06                    |
| 0.3.   | Means of identification of type,<br>if marked on the vehicle/component/<br>separate technical unit                 | : See Annex   |
| 0.3.1. | Location of that marking   | : on housing  |
| 0.4.   | Category of vehicle  | : not applicable  |
| 0.5.   | Name and address of manufacturer   | : N.V. Nederlandsche Apparatenfabriek<br>NEDAP<br>Parallelweg 2k<br>NL-7140 AC Groenlo<br>The Netherlands |
| 0.7.   | In case of components and separate technical units,<br>location and method of affixing of the<br>EEC approval mark | : on the housing  |
| 0.8.   | Address(es) of assembly plant(s)   | : N.V. Nederlandsche Apparatenfabriek<br>NEDAP<br>Parallelweg 2k<br>NL-7140 AC Groenlo                    |



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SECTION II

1. Additional information (where applicable) : See Appendix
2. Technical service responsible for carrying out the tests : N.V. KEMA
3. Date of test report : January 27, 2003
4. Number of test report : 2025552-QUA/EMC 03-4028
5. Remarks (if any) : none
6. Place : Zoetermeer
7. Date : 03. MRT 2003
8. Signature



9. The index to the information package lodged with the approval authority, which may be obtained on request is attached.

Type-approval number: e4 \* 72/245 \* 95/54 \* 0612 \* 00

Appendix to EEC-type-approval certificate

Concerning the type-approval of an electric/electronic sub-assembly with regard to Directive 72/245/EG, as last amended by Directive 95/54/EG.

1. Additional information :
- 1.1. Electrical system rated voltage : 230Vac input Voltage
- 1.2. This ESA can be used on any vehicle type with the following restrictions : none
- 1.2.1. Installation conditions, if any : none
- 1.3. This ESA can only be used on the following vehicle types : no restrictions
- 1.3.1. Installation conditions, if any : none
- 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were : free field-method  
20 - 1000 Mhz
- 1.5. Approved/recognized laboratory (for the purpose of this Directive) responsible for carrying out the test. : N.V. KEMA
5. Remarks : none



Type-approval number: e4 \* 72/245 \* 95/54 \* 0612 \* 00

Information document, relating to EEC type-approval of an electric/electronic sub-assembly with respect to electromagnetic compatibility (72/245/EC), as last amended by Directive 95/54/EC.

0. General

- 0.1. Make (trade name of manufacturer) : Mastervolt
- 0.2. Type and general commercial description(s) : battery chargers, brand Mastervolt, types:  
- IVO Smart 12/10  
- IVO Smart 24/06
- 0.5. Name and address of manufacturer : N.V. Nederlandsche Apparatenfabriek  
NEDAP  
Parallelweg 2k  
NL-7140 AC Groenlo  
The Netherlands
- 0.7. In the case of components and separate technical units, location and method of affixing of the EEC approval mark : on housing
- 0.8. Address(es) of assembly plant(s) : N.V. Nederlandsche Apparatenfabriek  
NEDAP  
Parallelweg 2k  
NL-7140 AC Groenlo  
The Netherlands

1. This ESA shall be approved as a component/STU.

2. Any restrictions of use and conditions for fitting : No restrictions

Appendix 1

Description of the ESA chosen to represent the type :

Appendix 2

Relevant test report(s) supplied by the manufacturer or approved/recognized laboratories for the purpose of drawing up the type-approval certificate :

