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AMENDMENT 1
1991-10

Amendment 1

Lead-acid starter batteries –

Part 2:

**Dimensions of batteries and dimensions
and marking of terminals**

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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International Electrotechnical Commission
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H

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FOREWORD

This amendment has been prepared by IEC Technical Committee No. 21: Secondary cells and batteries.

The text of this amendment is based on the following documents:

DIS	Report on Voting
21(CO)318	21(CO)321

Full information on the voting for the approval of this amendment can be found in the Voting Report indicated in the above table.

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CONTENTS

Add, after the title of Clause 14, Section Five, the following title of new Section Six and titles of the following new clauses 15 to 17:

**SECTION SIX – PREFERRED TYPES USED IN NORTH AMERICA
AND EAST ASIA – DIMENSIONS**

15. Scope

16. Starter batteries of series AM

17. Starter batteries of series AS

Page 17

Add, after Sub-clause 14.2, the following new Section Six:

**SECTION SIX – PREFERRED TYPES USED IN NORTH AMERICA
AND EAST ASIA – DIMENSIONS**

15. Scope

This amendment applies to two series of lead acid starter batteries for passenger vehicles and light commercial vehicles, widely and predominantly in use:

- 1) in North America;
- 2) in East-Asia.

In the following:

- the series according to 1) is designated "AM";
- the series according to 2) is designated "AS".

16. Starter batteries of series AM

16.1 General characteristics

The series AM comprise five types of batteries. All of these are designed to be fastened to a vehicle by means of ledges on the long sides of the battery case which are, however, different from those specified in IEC Publication 95-2.

16.2 Terminals and terminal configuration

Three types of this series have terminals according to Section four of IEC Publication 95-2. Two types have "side-terminals", see figures 9 and 10.

All types of this series have inverted terminal configuration (ITC) (see table IV).

16.3 Main dimensions of batteries

The main dimensions are represented by symbols as indicated in figures 6 to 10.

The symbols correspond to clause 7 of IEC Publication 95-2, with the following exceptions:

b_1 = width at battery base,

b_2 = width across ledges,

l_2 = length of ledges.

The dimensions corresponding to the symbols shall be in accordance with table IV.

16.4 The marking of the polarity shall correspond to Section five of IEC Publication 95-2.

17. Starter batteries of the series AS

17.1 General characteristics

The series AS comprise 11 types of batteries. All of these are designed to be fastened to the vehicle by means of a hold-down device engaging with the upper part of the battery (for example a metal frame), connected to the support platform.

17.2 Terminals and terminal configuration

All types of this series have terminals according to Section four of IEC Publication 95-2.

Five types of this series have standard terminal configuration (STC).

Six types have inverted terminal configuration (ITC), (see table V).

17.3 *Main dimensions of the batteries*

The main dimensions are represented by symbols as indicated in figure 11.

The symbols correspond to Clause 7 of IEC Publication 95-2, with the following exception:

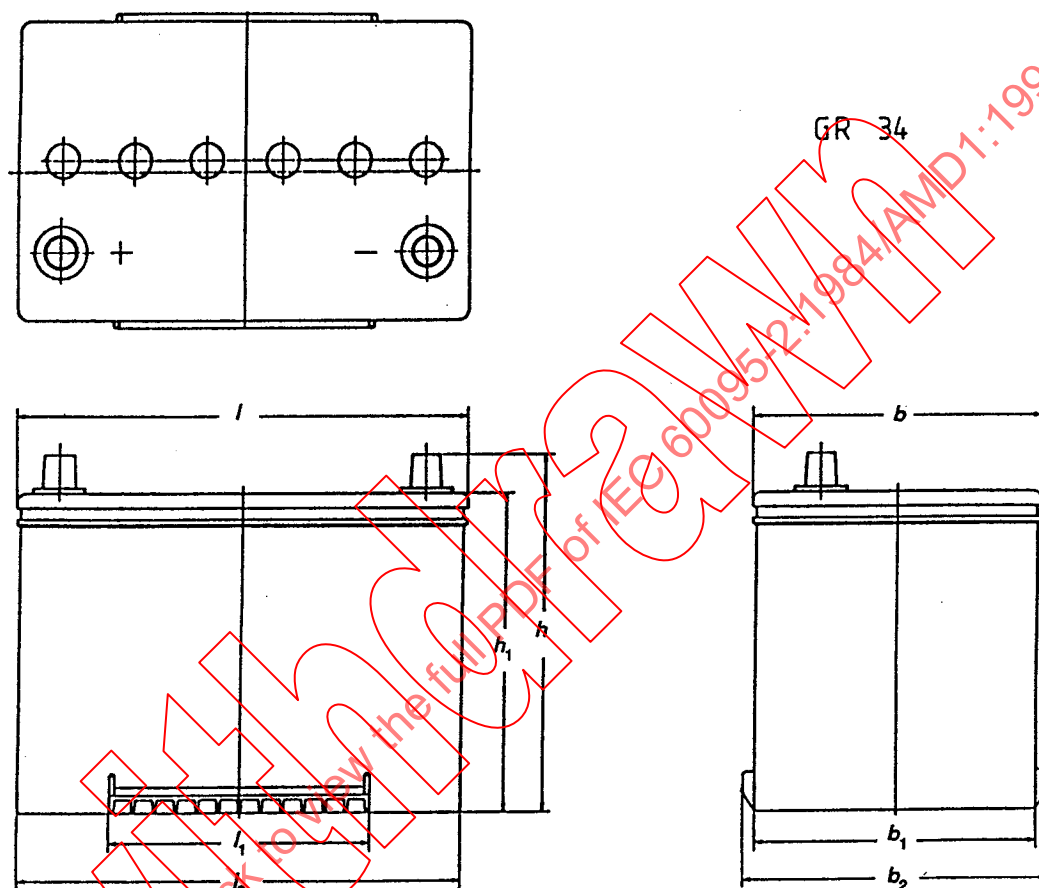
b_1 = width at battery base.

The dimensions corresponding to the symbols shall be in accordance with table V.

17.4 The marking of the polarity of terminals shall be in accordance with Section five of IEC Publication 95-2.

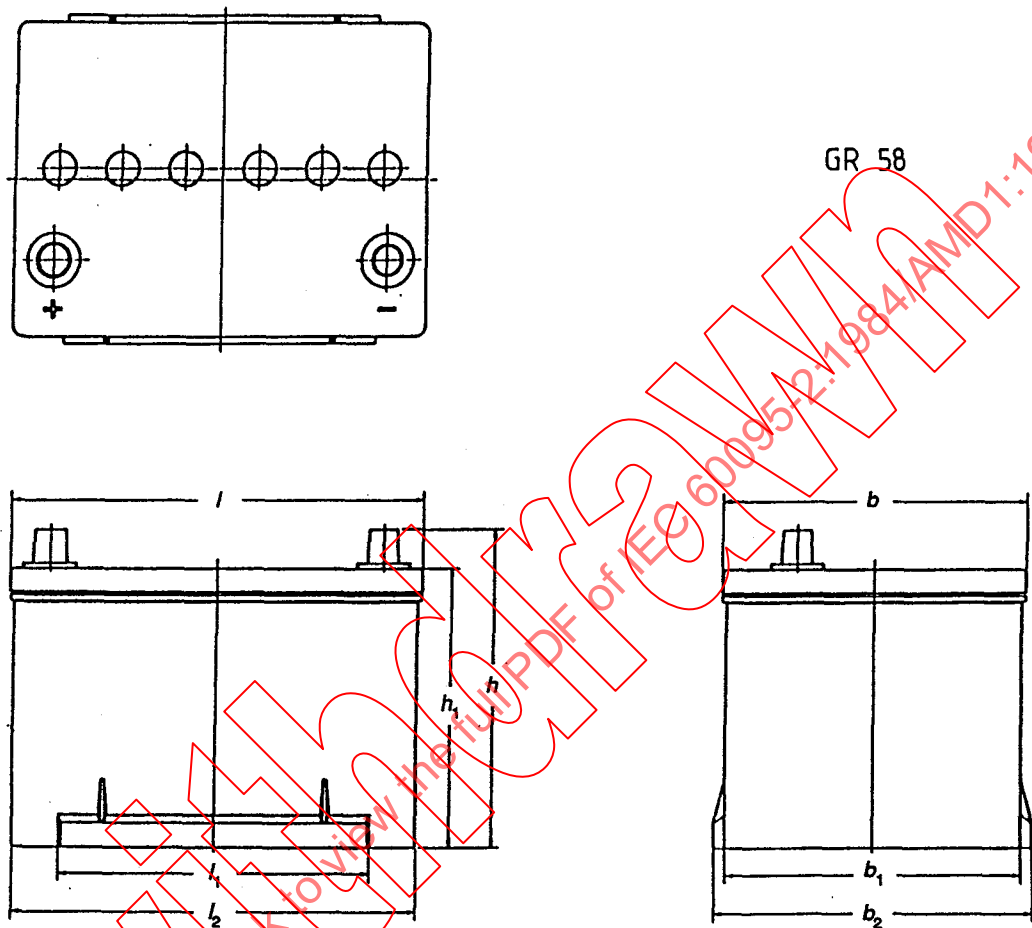
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Add, after figure 5, the following new figures 6 to 11:



CEI-IEC 786/91

Figure 6



GR 58

CEI-IEC 787/91

Figure 7

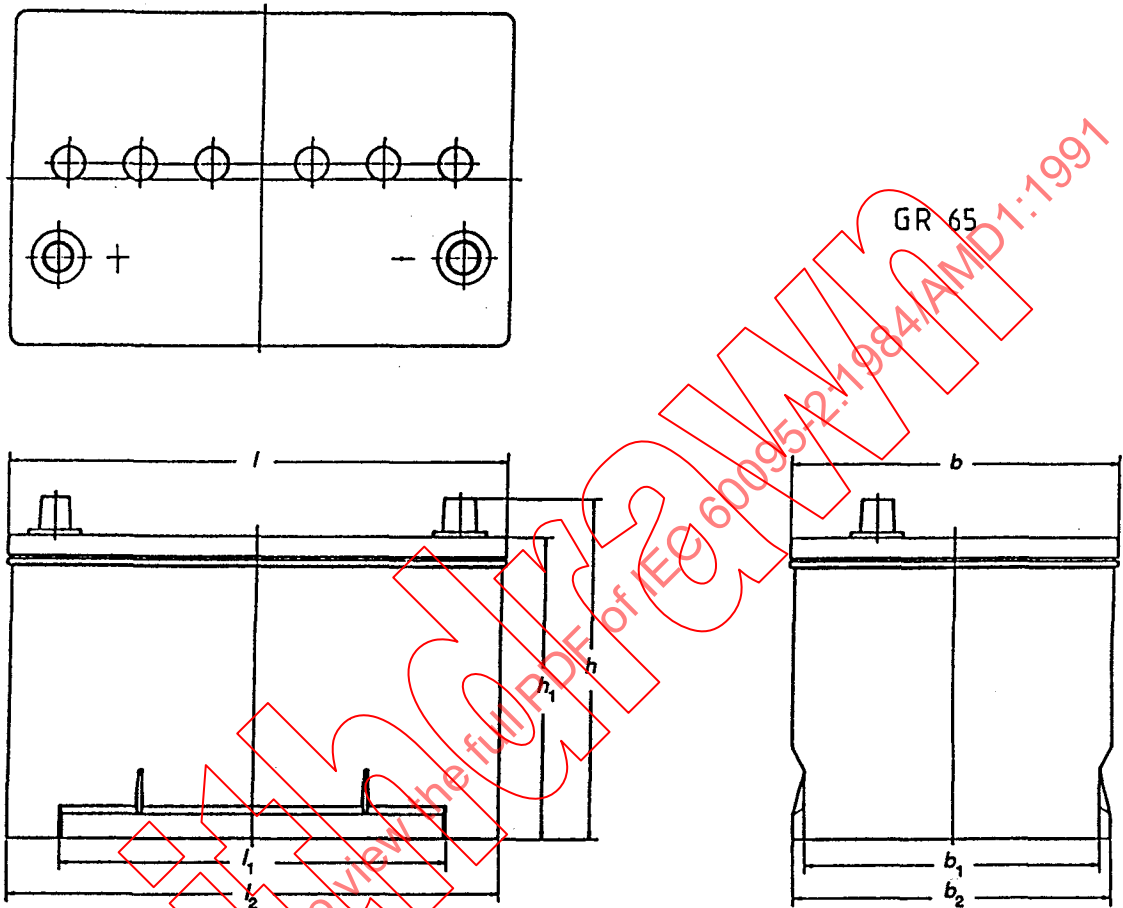
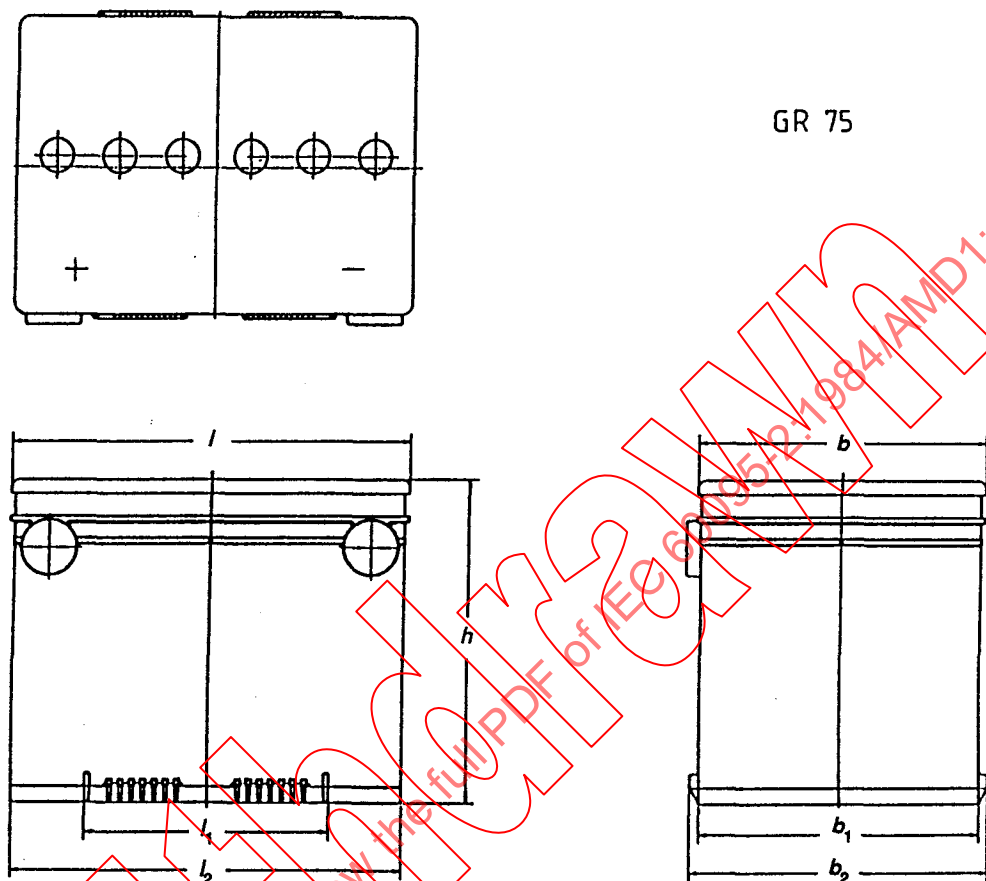
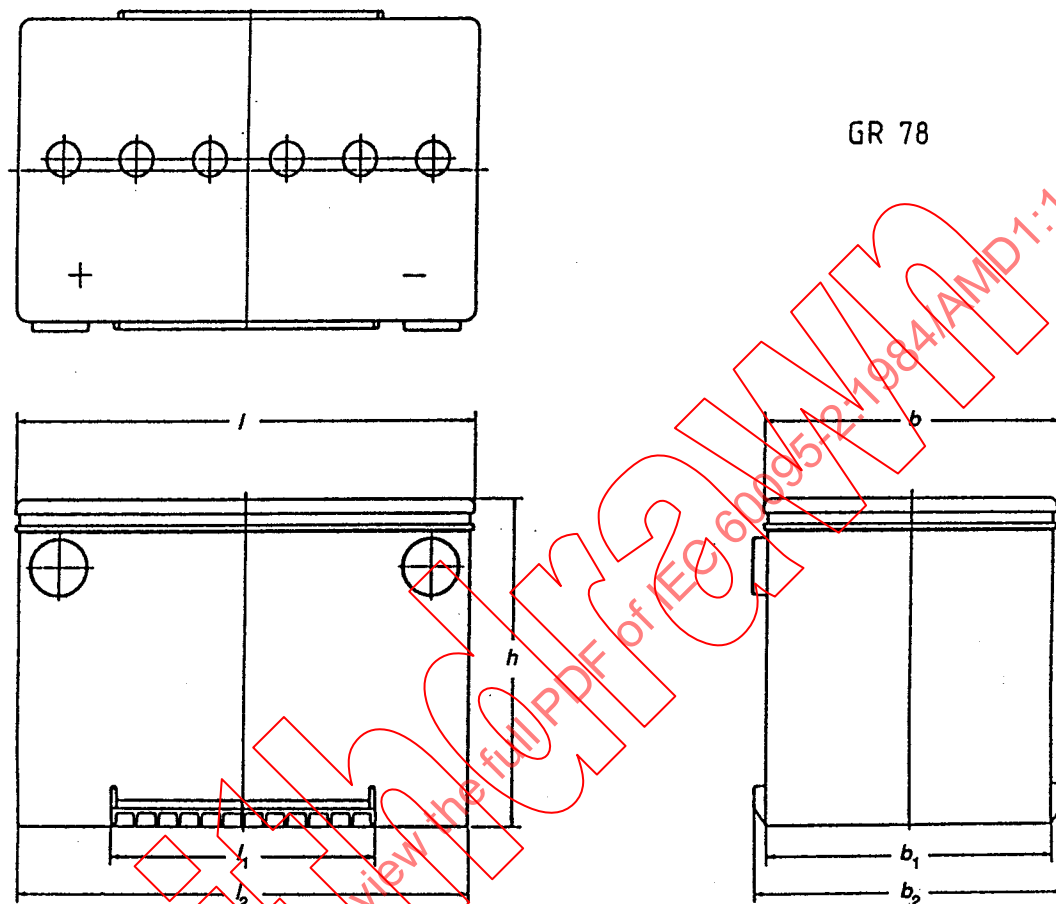


Figure 8



CEI-IEC 789/91

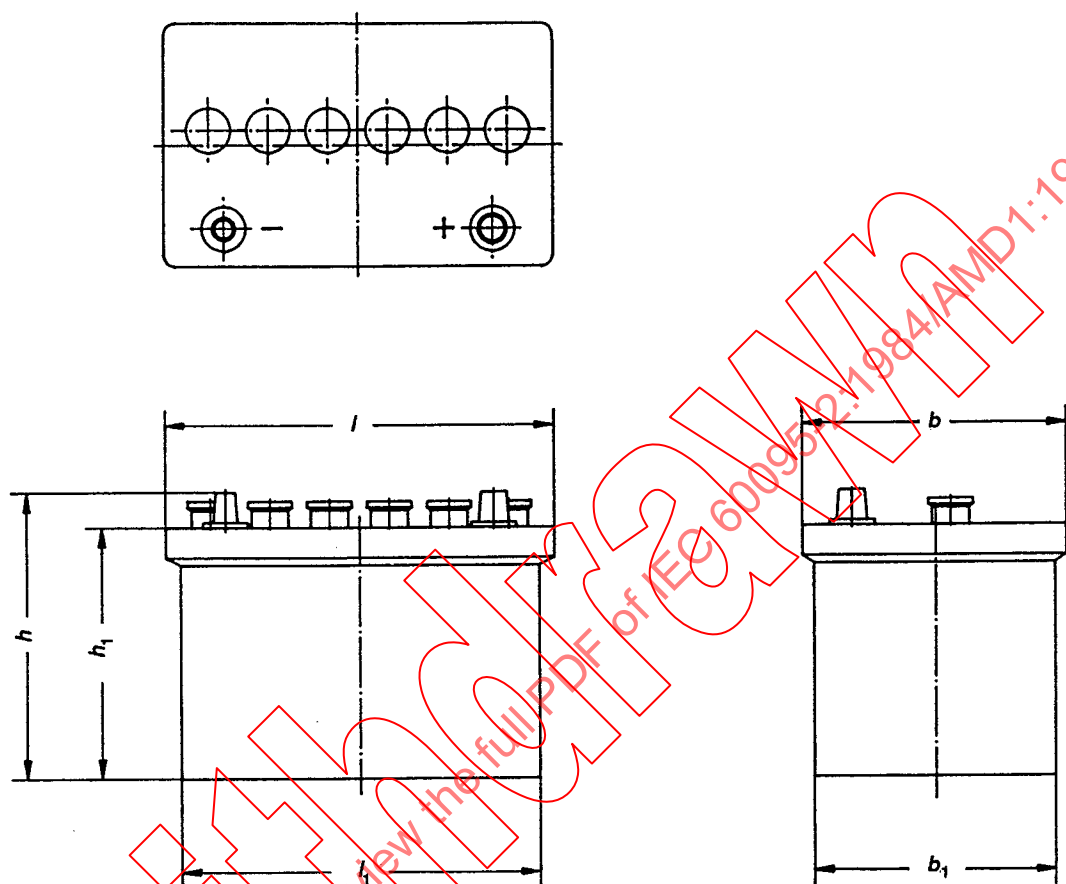
Figure 9



GR 78

CEI-IEC 790/91

Figure 10



CEI-IEC 791/91

Figure 11

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Ajouter, après le tableau III, les nouveaux tableaux IV et V suivants:

Add, after Table III, the following new Tables IV and V:

Tableau IV – Série AM

Table IV – Series AM

Type	Longueur Length			Largeur Width				Hauteur Height	Configuration des bornes Terminal configuration
	<i>l</i>	<i>l</i> ₁ max.	<i>l</i> ₂ max.	<i>b</i>	<i>b</i> ₁	<i>b</i> ₂ max.	<i>h</i> max.	<i>h</i> ₁	
GR34	260 ⁺⁰ ₋₄	254	149	173 ⁺⁰ ₋₄	161 ⁺⁰ ₋₄	175	200	181 ⁺⁰ ₋₄	ITC
GR58	239 ⁺⁰ ₋₄	230	177	133 ⁺⁰ ₋₄	169 ⁺⁰ ₋₄	182	177	156 ⁺⁰ ₋	ITC
GR65	288 ⁺⁰ ₋₄	281	221	190 ⁺⁰ ₋₄	169 ⁺⁰ ₋₄	182	192	170 ⁺⁰ ₋	ITC
GR75	230 ⁺⁰ ₋₄	223	139	179 ⁺⁰ ₋₄	161 ⁺⁰ ₋₄	171	196	–	ITC
GR78	260 ⁺⁰ ₋₄	254	149	179 ⁺⁰ ₋₄	161 ⁺⁰ ₋₄	175	196	–	ITC

Toutes les dimensions sont en millimètres.
All dimensions are in millimetres.