

SRI LANKA STANDARD 1126 : PART 3 : 1996

UDC 621 . 355.2

**SPECIFICATION FOR
LEAD-ACID STARTER BATTERIES
PART 3 : DIMENSIONS OF BATTERIES FOR
HEAVY COMMERCIAL VEHICLES**

SRI LANKA STANDARDS INSTITUTION

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SLS 1126: Part 3 : 1996

Gr. 5

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Sri Lanka Standard
SPECIFICATION FOR LEAD - ACID STARTER BATTERIES
Part 3 : Dimensions of batteries for heavy commercial vehicles

FOREWORD

This standard was approved by the Sectoral Committee on Electrical Appliances and Accessories authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards institution on 1996-05-23.

This standard supersedes CS 85 and is presented in three parts, namely;

- Part 1 : General requirements and methods of test;
- Part 2 : Dimensions of batteries and dimensions and marking of terminals;
- Part 3 : Dimensions of batteries for heavy commercial vehicles.

This part of the standard specifies dimensions of batteries for heavy commercial vehicles.

All the values given in this specification are in SI units.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or an analysis, shall be rounded off in accordance with CS 102. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

In the preparation of this standard, the assistance derived from the BS EN 60095-4 : 1993 Dimensions of batteries for heavy commercial vehicles, is gratefully acknowledged.

1. SCOPE

This standard is applicable to lead-acid batteries used for starting, lighting and ignition of agriculture machines, buses, coaches and lorries.

2. DEFINITIONS

For the purpose of this standard, the definitions given in SLS 982, Part 13 : 1992 shall apply.

3 MAIN DIMENSIONS OF BATTERIES

3.1 Standard series

The standard series comprise of Types D1, D2, D2a, D3, D3a, D4, D4a, D5, D5a, D6, D7, D8 and D9, having dimensions as given in Table 1. See Fig. 1 to Fig. 5 to identify the dimensions denoted by letters l, l₁, l₂, b, b₁, b₂, h, h₁ and C of Table 1

3.2 Main dimensions of batteries

The dimensions corresponding to the starter batteries shall be in accordance with Table 1.

3.3 Fastening

Types D2, D3, D4, D5, D6 and D7 are intended for fastening by the upper part of the battery only. This fastening shall be effected at a level defined by dimension h₁ of Fig. 1 to Fig. 5. The configuration shall permit the fitting of an angle-iron frame both legs of which are 20 mm wide for the major part of its length and width.

However, Types D1, D2a, D3a, D4a, D5a, D8 and D9 may be fastened by the base of the battery container, or by the upper part of the battery container.

Fastening by the base of the container on the short sides is effected by fixing lugs with notches to prevent movement of the battery crosswise.

The arrangement of the ledges, lugs and notches shall be as shown in Fig. 1 to Fig. 5.