



EDC 2 (2591) DTZS

IEC 62040-1:2022

## **DRAFT TANZANIA STANDARD**

**(Draft for comments only)**

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**Uninterruptible power systems (UPS) - Part 1: Safety requirements**

Draft for Stakeholders comments only

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**TANZANIA BUREAU OF STANDARDS**

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## **1 National Foreword**

This draft Tanzania Standard is being prepared by the ELV and Energy Storage Systems Technical Committee, under the supervision of the Electrotechnical Divisional Standards Committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard IEC 62040-1:2022, *Uninterruptible power systems (UPS) - Part 1: Safety requirements*, which has been prepared by the International Electrotechnical Commission (IEC).

## **2 Terminology and conventions**

Some terminologies and certain conventions are not identical with those used in Tanzania Standards; Attention is drawn especially to the following:

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker; and
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

### **3 Scope**

This Tanzania standard applies to movable, stationary, fixed or built-in UPS for use in low-voltage distribution systems and that are intended to be installed in an area accessible by an ordinary person or in a restricted access area as applicable, that deliver fixed frequency AC output voltage with port voltages not exceeding 1 000 V AC or 1 500 V DC and that include an energy storage device.

It applies to pluggable and to permanently connected UPS, whether consisting of a system of interconnected units or of independent units, subject to installing, operating and maintaining the UPS in the manner prescribed by the manufacturer.

This document specifies requirements to ensure safety for the ordinary person who comes into contact with the UPS and, where specifically stated, for the skilled person. The objective is to reduce risks of fire, electric shock, thermal, energy and mechanical hazards during use and operation and, where specifically stated, during service and maintenance.

This second edition cancels and replaces the first edition published in 2022. It constitutes a technical revision.

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