

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric vehicle battery swap system –
Part 1: General and guidance**

**Système d'échange de batterie de véhicule électrique –
Partie 1: Généralités et recommandations**

IEC 62840-1:2025

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IEC 62840-1 has been prepared by IEC technical committee 69: Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks. It is an International Standard.

This first edition cancels and replaces the first edition of IEC TS 62840-1 published in 2016.

This edition includes the following significant technical changes with respect to IEC TS 62840-1:2016:

- a) expanded scope to include handheld-swappable battery systems (HBS) and guidance on interoperability;
- b) added definitions for "handheld-swappable battery system" (HBS) and expanded related terms such as "SBS/HBS coupler," "SBS/HBS charger," etc;
- c) added classifications based on supply network characteristics, connection method, access and type of BSS;