



MODERNIZATION SOLAR

# Non-standard battery pack





## Overview

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What are the standards for a battery pack?

There are few standards addressing topics such as ISO7637\_1 ; ISO7637\_2 ; ISO7637\_3 , but as mentioned, more work or regulations are needed. The battery pack, as an individual component with connectors and interfaces, including all cells and electronics, has an acceptable EMC behavior, as defined in relevant standards.

What are the electrical characteristics of a battery pack?

Electrical characteristics of a battery pack reveal its ability to deliver consistent power and energy throughout its lifespan. The battery system should be stable under different conditions, and consider the minimization of the battery pack aging effects to preserve performance and reliability.

What are the charging and discharging requirements of a battery pack?

The charging and discharging requirements of the battery pack are directly related to the power demand required by the electric motors and the charging time. The battery pack design shall be such that could meet the required max power in traction and regeneration modes. In addition, the charging power is a critical factor for end users.

What is a battery pack?

The battery pack is an independent subsystem at the vehicle level that was tested separately. The unit should be able to operate under different electrical and environmental conditions considering safety concerns and regulations. Hence, the battery unit is enclosed by a metallic enclosure that can survive different test cases such as vibrations.



## Non-standard battery pack



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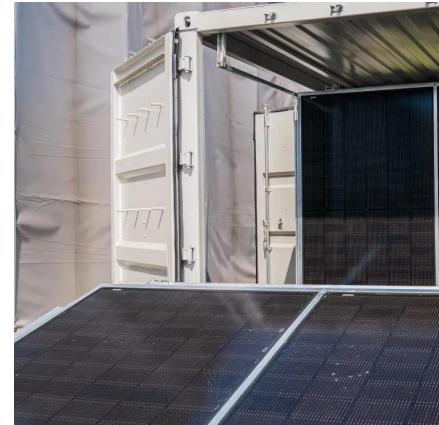
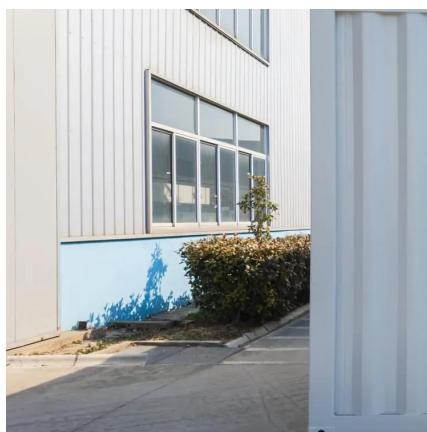


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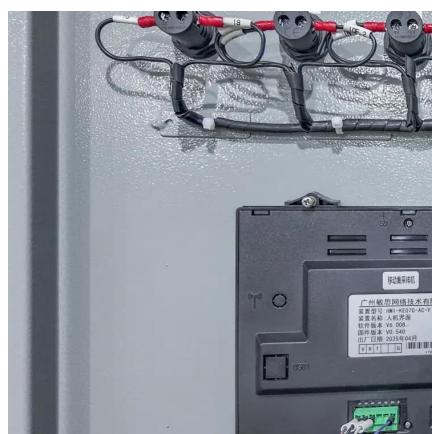
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