

## Solar Energy South Africa

# Transport of Dangerous Goods Energy Storage Cabinets



## Overview

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Are battery energy storage systems safe on ships?

Gard published that in the past few months, has received several queries on the safe carriage of battery energy storage systems (BESS) on ships and highlights some of the key risks, regulatory requirements, and recommendations for shipping such cargo.

Are energy storage systems equipped with lithium-ion batteries dangerous?

Our focus in this article is therefore on energy storage systems equipped with lithium-ion batteries. Declaration of BESS Siddharth Mahajan, Senior Loss Prevention Executive, Singapore highlights that BESS with lithium-ion batteries is classed as a dangerous cargo, subject to the provisions of the IMDG Code.

Are the batteries inside the cargo transport unit subject to marking or labelling requirements?

The batteries inside the cargo transport unit are not subject to marking or labelling requirements. The cargo transport unit shall display the UN number in accordance with 5.3.2.1.2 and be placarded on two opposing sides in accordance with 5.3.1.1.2.

Which regulations do not apply to the transport of dangerous goods?

1.1.1.2 These Regulations do not apply to the transport of: (a) Dangerous goods that are required for the propulsion of the means of transport or the operation of its specialised equipment during transport (e.g. refrigeration units) or that are required in accordance with the operating regulations (e.g. fire extinguishers); and.

Can dangerous goods be transported as a coolant or conditioner?

Transport of dangerous goods used as a coolant or conditioner Dangerous goods, that are only asphyxiant (which dilute or replace the oxygen normally

in the atmosphere), when used in cargo transport units for cooling or conditioning purposes are only subject to the provisions of section 5.5.3.  
1.1.1.9 Lamps containing dangerous goods.

What are the requirements of a transport document for dangerous goods?

One of the primary requirements of the transport document for dangerous goods is to convey the fundamental information relative to the hazard of the goods being offered for transport.

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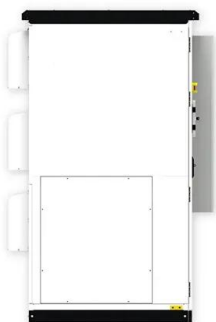


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### Gard: Safe carriage of Battery Energy Storage Systems ...

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### STORAGE FOR DANGEROUS GOODS / DANGEROUS ...

Storage for Dangerous Goods / Segregation

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