

IATA – IMDG - ADR Conformity	 GS YUASA BATTERY GERMANY GmbH	FO-QAT02-B
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TRANSPORTATION OF YUASA BATTERIES BY AIR, SEA AND/OR LAND
Series of VRLA BATTERIES: NP, NPC, NPH, NPL, NPW, RE, REC, REW, SWL, TEV, UXH, UXL, UXF, FXH, ENDURANCE (EN / ENL / FT) , YTZ, GYZ

Under IATA Dangerous Goods Regulations 60th Edition effective 1st January 2019 until 31st December 2019, accordance to IATA-Resolution 618 Annex "A" and in consultation with ICAO the above batteries are classified as:

Valve Regulated Lead-Acid (VRLA) Battery

Battery, wet, non-Spillable electric storage

Substance classification: UN 2800

"Class 8, Group III , no limit, special provision A48, A67, A164 and A183."

These batteries are classified as non-spillable because they have been shown to meet the requirements of the above IATA-Regulations as stated in Packing Instruction 872 Chapter 5 on page 666ff (German version).

This is also according to special directive IMDG 238.2 (International Maritime Dangerous Goods Code) . Furthermore this checking apply to IMDG chapter 3.3.1 reference 238.1 and 238.2.

Transport Information

Components		
VRLA Battery	Air Transport	Air Transport (IATA-DGR) <ul style="list-style-type: none"> • UN No: 2800 • Classification: Class 8 • Proper Shipping Name: BATTERIES, WET, NON-Spillable electric storage • <u>Special Provision A48</u>: Packing Test are not considered necessary • <u>Special Provision A67</u>: Yuasa’s VRLA batteries meet the requirements of Packing Instruction 872. <p>The battery has been prepared for transport so as to prevent:</p> <ol style="list-style-type: none"> a) A short-circuit of the battery’s terminals by packing in a strong and sturdy carton box; AND/OR b) The battery has been fitted with an insulating cover (made from ABS) which prevents contact with the terminals. c) Unintentional activation is thus prevented <p>The words "NOT RESTRICTED" and the special Provision (SP) number must be indicated on all shipping documents</p> <ul style="list-style-type: none"> • <u>Special Provision A164</u>: The battery has been prepared for transport so as prevent: <ol style="list-style-type: none"> a) Short-circuit of the battery’s terminals by packing in a strong and sturdy carton box; AND/OR b) The battery has been fitted with cover (made from ABS) which prevents contact with the terminals c) Unintentional activation is thus prevented

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	Land Transport	Land Transport (ADR / RID) <ul style="list-style-type: none"> • UN No: UN2800 • Classification ADR / RID: Class 8 • Proper Shipping Name: BATTERIES, WET, NON-SPELLABLE electric storage • Packing Group ADR: not assigned • Tunnel code: E • ADR / RID: New and spent (used) batteries are exempt from all ADR / RID (special provision 598)
	Sea Transport	Sea transport (IMDG Code) <ul style="list-style-type: none"> • UN No: UN2800 • Classification: class 8 • Proper Shipping Name: BATTERIES, WET, NON-SPELLABLE electric storage • EmS: F-A, S-B Non-spillable batteries meet the requirements of Special Provision 238; they are therefore exempt from all IMDG codes and are not regulated for sea transport.
	All methods of transport	<p>Do not place VRLA batteries inside sealed enclosures.</p> VRLA Batteries emit hydrogen gas which is highly flammable and will form explosive mixtures in air from approx. 4% to 76%. This can be ignited by a spark at any voltage, naked flames or other sources of ignition.

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