

Technical Information

## Handling and Warehousing 22S1P

**Products:** • Battery Module 8.0-1C-HV1500 with Dynamix Battery Optimizer (DBO)

### Handling – Instructions for safe handling

- Protection against fire and explosion are recommended.
- Keep modules away from open flames, hot surfaces, sources of ignition and high fire risk objects. Do not heat modules and avoid direct sunlight.
- Do not wear or use metal objects that could cause short circuits on the positive and negative terminals.
- Use tools with an insulated handle in order to prevent inadvertent electrical shock or short circuits.
- Do not put tools, metal parts or other devices on top of the battery modules.
- Avoid a short-circuit of the module; Avoid mechanical damage of the module.
- Use appropriate handling and transport tools when moving the battery modules. Wear safety clothing and protective gears that comply with the PPE rules.
- Installation of the battery system involves heavy cargos, follow safe lifting techniques and guidelines.
- Keep the site as clean and dust-free as possible when installing, servicing, and operating the battery system.
- The battery system must not be disposed arbitrarily. Use an authorized recycler for the retraction of the battery modules or contact TESVOLT AG.
- Installation and maintenance of the battery system must be performed by authorized personnel. Unauthorized personnel are not allowed to access or handle the battery system.
- Do not remove the covers of the modules. Disassembly or modification of modules is strictly prohibited.
- Damaged or deformed modules or modules which shock sensor was triggered, must not be used. Store them safely and contact TESVOLT AG.
- Do not insert foreign substances into modules.
- Do not expose modules to water or highly humid environments.
- Do not smoke within 20 meters of the battery system.
- Do not eat or drink near the battery system.


### Warehousing - Requirements for storage rooms and vessels

- Store at room temperature from 5 to 28 °C for maximum 6 months (recommended 20°C).
- Humidity must be less than 80% and there must be no condensation.
- The recommended storage capacity is from 15 to 25 % of the nominal capacity (OCV approx. 78,5 +/- 0,1 V).
- Keep the battery module in the original packaging box.
- When storing or transporting the module in its packaging box, keep the box upright. Do not keep the box upside down or on its side.
- Do not stack more than 5 boxes.


### Transport Information

Proper shipping name:	Lithium-ion batteries
UN number:	UN3480
Hazard Class or Division:	9
Packing group:	-
Label:	9A


**Land transport (ADR/RID)**

UN number:	3480
ADR/RID class:	9
Classification code:	M4
Hazard label:	9A
	
ADR/RID packing group: Limited and excepted quantity:	- 0 / E0
Tunnel restriction code:	E
Description of the goods:	Lithium ion batteries
<b>Other applicable information (land)</b>	
Transport category:	2

**Marine transport**

UN number:	3480
IMDG code:	9
Marine pollutant:	No
Hazard label:	9A
	
IMDG packing group: EmS: Limited and excepted quantity:	- F-A, S-I 0 / E0
Description of the goods:	Lithium ion batteries
<b>Other applicable information (marine)</b>	
Storage and segregation category A. SW 19	

**Air transport**

UN/ID number:	3480	IATA-max. quantity - Passenger:	Not allowed
ICAO/IATA-DGR:	9	IATA-max. quantity - Cargo:	965
Hazard label:	Miscellaneous Lithium batt	IATA-max. quantity - Cargo:	54 kg net
		Description of the goods:	Lithium ion batteries
ICAO packing group: Limited quantity Passenger: IATA-packing instructions Passenger:	- - 965	<b>Other applicable information (air)</b>	
		Lithium equivalent: 660 g	
		Wh-rating per cell: 368 Wh	
		Cargo Aircraft Only (CAO)	