TL001753: Declaration of conformity

2026

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PRODUCT Family: Power Loop electrical energy storage system

PRODUCT Description: An electrical energy storage system comprising flywheel(s) within a protective container and enclosed with electrical power and auxiliary subsystems within a transportable ISO container.

Product codes covered:
*TPL.250**X**.A.1.D.**Y**.A.B*
*TPL.500**X**.A.1.D.**Y**.A.B*
*TPL.1000**X**.A.1.D.**Y**.A.B*

*Where **X** and **Y** are designated according to specific systems.*

Teraloop hereby declares that the product conforms to the following Directives:

2006/42/EC Machinery Directive
Directive of the European Parliament and of the Council of 17 May 2006 on machinery and amending Directive 95/16/EC; Official Journal of the EU L157, 09/06/2006, p. 24-86.

2014/35/EU Low Voltage Directive
Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits; Official Journal of the EU L96, 29/03/2014, p. 357–374.

2014/30/EU EMC Directive
Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility; Official Journal of the EU L96, 29/03/2014, p. 79–106.

2011/65/EU RoHS Directive
Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment; Official Journal of the EU L174, 01/07/2011, p. 88–110, supplemented by: Delegated Directive (EU) 2015/8/63 (document 32015L0863).

SJV2024 Grid code specifications for grid energy storage systems
Teraloop system fulfils the technical requirements set for type A and B level energy storage systems. For Hybrid systems the following statement applies:

"If the connected party wants to integrate the electricity storage resources into the control system of a hybrid power plant or a consumption object, the requirements can be considered as a whole. The requirements are determined based on the rated power of the overall system and the voltage level of the connection point, with the difference that electricity storage units of less than 10 MW are not required to have grid-generating properties (see Chapter 10.4.3) when they operate as part of a C or D type overall system. Fingrid determines the detailed require" Fingrid,SJV2024

The primary harmonised standards applicable to the Directive(s) listed above and relevant to Teraloop's PowerLoop system are summarised below:

Reference	Title	Description
EN 60204-1	Safety of machinery – Electrical equipment of machines. Part 1: General requirements	System level safety requirements considering electrical equipment. Electrical safety aspects of the EC Machinery directive.
ISO 13849	Safety of machinery - Safety-related parts of control systems	Siemens/Danfoss/ABB and Spindrive AMB certification.
IEC 61800	Adjustable speed electrical power drive systems	Siemens/Danfoss/ABB and Spindrive AMB certification.
IEC 61508	Standard for electrical, electronic and programmable electronic safety related systems	Installation works are completed by a licensed contractor for compliance.
IEC 62933-2-1	Electrical energy storage (ESS) systems - Unit parameters and testing methods	Self certification; addresses electrical energy storage (ESS) testing methodologies and can be considered valid in Teraloop's case
EN 60034-1	Rotating electrical machines - Part 1: Rating and performance	Self certification; addresses the rotating machine/flywheel
EN 50274	Low-voltage switchgear and control gear assemblies	For systems sold in cabinets
SJV2024	Grid code specifications for grid energy storage systems	Fulfils technical requirements set for type A and B energy storage. Storage as a part of hybrid systems with type C and D requirements considered as a whole.

This declaration certifies compliance with the guidelines mentioned, but is not a guarantee of quality or durability. The safety instructions in the supplied product documentation must be observed.
Further information on compliance with this policy(s) is contained in the appendix, which forms an integral part of this Declaration of Conformity.
The manufacturer is solely responsible for issuing this declaration of conformity.

Helsinki, 7.10.2026

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