LUNA2000-5015-2S Smart String Grid Forming ESS

Regulatory Compliance Statement

Issue 01

Date 2025-08-25

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About This Document

Purpose

This document describes the regulatory compliance statement for the energy storage system.

Statement

In this document, LUNA only refers to a specific model of Huawei Smart String Grid Forming ESS.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
DANGER	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.
NOTE	Supplements the important information in the main text. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

Change History

Issue	Date	Description
01	2025-08-25	This issue is the first official release.

Contents

1 European Regulatory Compliance

1.1 RED

In accordance with Article 10.2 in Directive 2014/53/EU (RED), this device can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.

FREQUENCY BANDS AND MAXIMUM RF POWER

In accordance with Article 10.8 in Directive 2014/53/EU (RED),

• WLAN 2.4 GHz:	≤ 20 dBm EIRP

SOFTWARE

• Version:	V200R025

RF EXPOSURE (HEALTH)

This device complies with relevant RF radiation exposure limits set forth for a public/uncontrolled environment. This equipment should be installed and/or operated with a minimum distance as below between the radiator and your body:

- Council Recommendation 1999/519/EC: 0.2 meters
- Directive 2013/35/EU: 0.2 meters

1.2 EMC

NOTE

This is a Class A equipment. Operation of this equipment in a residential environment could cause radio interference, in which case the user may be required to take adequate measures.

Electrostatic Discharge

NOTE

ESD Protection

Always wear ESD gloves or an ESD wrist strap prior to contact with the equipment or before handling devices, boards, or IC chips to prevent damage to sensitive components due to electrostatic discharge from the human body. Ensure that the ESD wrist strap is properly grounded.

For information about how to wear an ESD wrist strap, see Figure below.

Figure 1-1 Wearing an ESD wrist strap

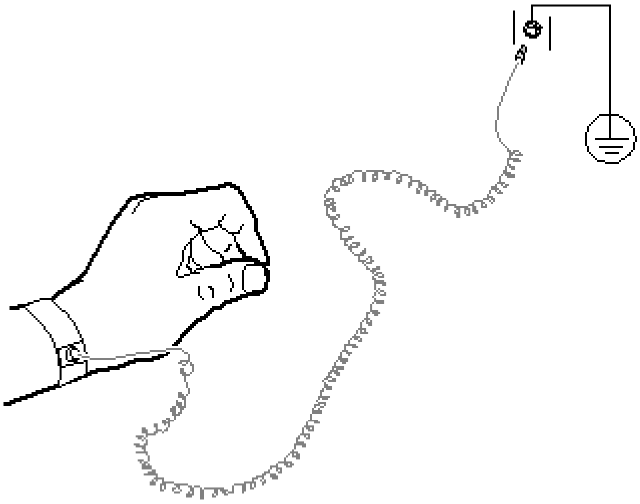
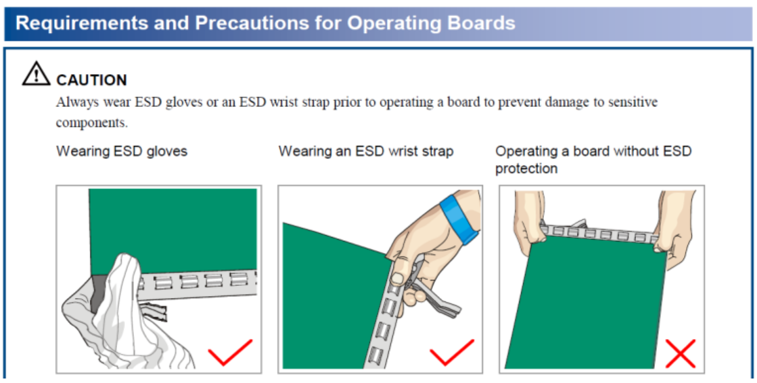


Figure 1-2 Requirements and precautions for operating boards



Cables and Shielding

EMC performance is dependent upon the use of correct cables of good quality for all external connections when installing this equipment. Ensure compliance with cable/connector specifications and associated installation instructions given elsewhere in the product manual.

Where shielded cables are required and there are no specific requirements in the product manual then the following good practices shall be implemented:

- Multi-conductor cables should be of double-braided shielded type and have conductive connector bodies and backshells with cable clamps that are conductively bonded to the backshell and capable of making 360 degree connection to the cable shielding.
- Ethernet cables should be of the double-shielded type.
- Coaxial cables should be of the double-braided shielded type.
- The shielded cables should be grounded at both ends.

1.3 Batteries Regulation

In accordance with Article 10.1 in REGULATION (EU) 2023/1542 (Batteries Regulation), the values for the electrochemical performance and durability parameters are as follows:

Attribute	LUNA2000-5015-2S
Rated capacity	628 Ah
Capacity fade	100% – Pack SOH[1]%
Original power capability	52249 W
Power capability fade	(Original power capability – Remaining power capability[1])/Original power capability x 100%
Maximum permitted battery power	104499 W
Initial round trip energy efficiency	95%
Round trip energy efficiency at 50% of cycle life[2]	95%
Round trip energy efficiency fade[2]	(Initial round trip energy efficiency – Remaining round trip energy efficiency[1])/Initial round trip energy efficiency x 100%
Initial internal resistance on battery cell level	0.2–0.6 mΩ
Initial internal resistance on battery pack level	40 mΩ

Attribute	LUNA2000-5015-2S
Internal resistance increase on battery pack level	(Current internal resistance[1] – Initial internal resistance[1])/Initial internal resistance x 100%
Expected lifetime (number of charge-discharge cycles)	8000
Expected lifetime (calendar years)	20 years
Note [1]: This parameter can be viewed in the battery management system. Note [2]: This parameter is calculated by Rated cell voltage x Number of cell strings x Rated cell current. It is different from the maximum permitted battery power. Note [3]: This parameter is estimated from the initial round trip energy efficiency and test data.	

2 Great Britain Regulatory Compliance

2.1 Radio Equipment Regulations 2017

In accordance with Regulation 8 in Radio Equipment Regulations 2017, this device can be operated in at least one Member State without causing an infringement of the applicable requirements on the use of the radio spectrum in the relevant Member State or Member States.

FREQUENCY BANDS AND MAXIMUM RF POWER

- In accordance with the relevant statutory requirements in UK,

• WLAN 2.4 GHz:	≤ 20 dBm EIRP

SOFTWARE

• Version:	V200R025

RF EXPOSURE (HEALTH)

This device complies with relevant RF radiation exposure limits set forth for a public/uncontrolled environment. This equipment should be installed and/or operated with a minimum distance as below between the radiator and your body:

- Council Recommendation 1999/519/EC: 0.2 meters
- Directive 2013/35/EU: 0.2 meters

This device complies with relevant RF radiation exposure limits set forth for a public/uncontrolled environment. The Specific Absorption Rate (SAR) for this device is:

2.2 Electromagnetic Compatibility Regulations 2016

NOTE

This is a Class A equipment. Operation of this equipment in a residential environment could cause radio interference, in which case the user may be required to take adequate measures.

Electrostatic Discharge

NOTE

ESD Protection

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For information about how to wear an ESD wrist strap, see Figure below.

Figure 2-1 Wearing an ESD wrist strap

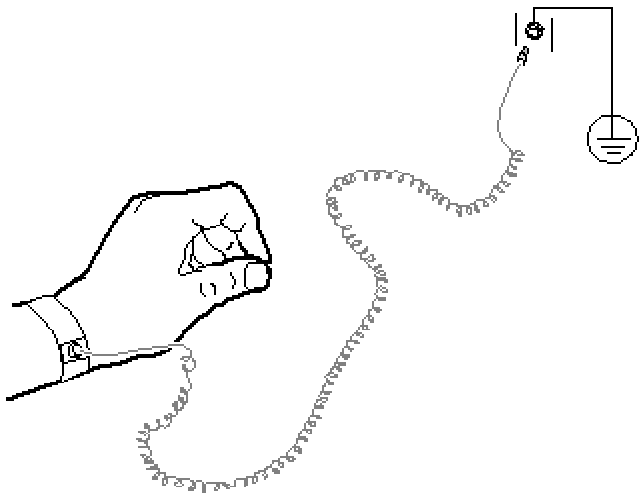
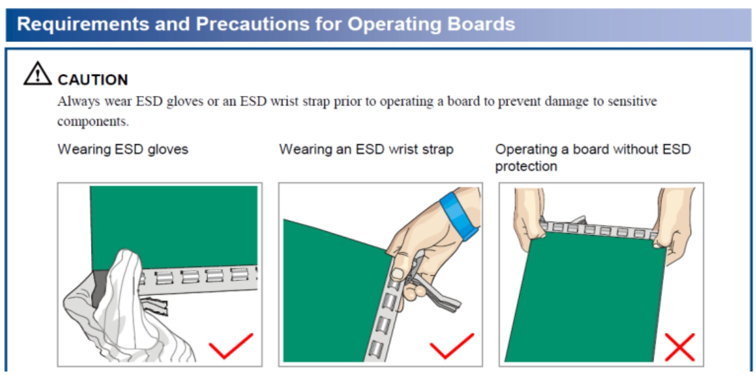


Figure 2-2 Requirements and precautions for operating boards



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3 China Regulatory Compliance

3.1 China RoHS Hazardous Substance Table

LUNA2000-5015-2S Complies with RoHS requirements of China:

Hazardous Substances Contained in the Product	Part Descriptions				
	PCBA	Cable	Metal part	Polymeric part	Battery
Cd	○	○	○	○	○
Pb	×	×	×	○	×
Hg	○	○	○	○	○
Cr(VI)	○	○	○	○	○
PBB	○	○	○	○	○
PBDE	○	○	○	○	○
DBP	○	○	○	○	○
DIBP	○	○	○	○	○
BBP	○	○	○	○	○
DEHP	○	○	○	○	○

1. ○: indicates that the hazardous substance contained in all homogenous materials for this part does not exceed the limit specified in the national standards for the restricted use of hazardous substances in electrical and electronic products.

   ×: indicates that the hazardous substance contained in at least one homogenous material for this part exceeds the limit specified in the national standards for the restricted use of hazardous substances in electrical and electronic products.

2. Parts not explicitly listed do not contain hazardous substances above the limits specified in the national standards for the restricted use of hazardous substances in electrical and electronic products.

4 Other Markets

For relevant compliance information/documentation for markets not mentioned above, please contact Huawei representative.

