

LUNA2000-5015-2S Noise Calculations

Issue 01
Date 2025-03-13



Copyright © Huawei Technologies Co., Ltd. 2025. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <https://www.huawei.com>

Email: support@huawei.com

About This Document

Purpose

This document describes noise level of HUAWEI Smart String Grid Forming ESS 2.0

Change History

Issue	Date	Description
01	2025-03-13	This issue is the first official release.

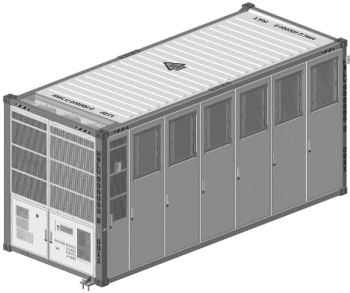
Contents

About This Document.....	ii
1 Description	1

1 Description

Huawei Smart String Grid Forming ESS shall be designed and manufactured according to IEC 62477-1 standard. And the noise level of Smart String Grid Forming ESS shall be complied and tested in accordance with ISO 3746 "Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane" and ISO 9614-1 "Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points".

Detailed noise level for Huawei Smart String Grid Forming ESS is listed in the table below.

LUNA2000-5015-2S	Noise level (Sound pressure level)
	<p>0.5CP: 80dB (A) @1m@25°C 85dB (A) @1m@40°C</p> <p>0.25CP: 73dB (A) @1m@25°C 83dB (A) @1m@40°C</p>

Test condition & Test method

The Smart String Grid Forming ESS sound level measurements are carried out at rated output voltage and rated frequency, and immediately after the background measurements, A-sound pressure level measurements are carried out for each measuring position located around the energy storage system as detailed in the ISO 3746 and ISO 9614-1.