STATRON
NON STOP POWER

Battery Energy Storage System (BESS)
BASE LOAD POWER HUB

Statron ref. 331497

Project Code: K559-2254
Purchase Order Number: CW-I-WP4-2022-01

SDRL Code: C06
Sequence Number: 001
Rev: 002
Document number: K559-2254-CWIWP4202201-C06-001
Document description: Electrical Single Line Diagrams

STATRON AG | Almuesenacherstrasse 1 | 5506 Mägenwil | Switzerland | T: +41 (0)62 88748 87 | statron@statron.com | www.statron.com

Electrical Single Line Diagrams
C06

for Base Load Power Hub (BLPH) Project

Classification: confidential

Document no.	C06
Document name	Electrical Single Line Diagrams
Component / System	BESS
Project code	K559-2254

Version	Date	Name	Description
1.0	2023-02-20	C. Palenzuela	First version
2.0	2024-11-21	M. Müller	First revision

Table 1: Version overview

	Date	Name
Editor	2024-11-21	M. Müller
Checked by	2024-11-27	C. Palenzuela
Approved by	2024-11-27	C. Palenzuela

Table 2: Approval overview

Imprint

Hardware Development and Production Centre
Freqcon GmbH
Bürgerwiesenweg 5
D-27336 Rethem, Germany

Phone: +49 (0) 5165 – 291 760 – 0

Email:
info@freqcon.de
hardware@freqcon.de
Phone: +49 (0) 571 – 388 478 – 10

Email:
info@freqcon.de
Software@freqcon.de

Contact details

For further information please contact us by phone or send us a mail to **info@freqcon.de**.
You can also visit us on our website **http://www.freqcon.com** to find more information about our products and solutions.

Content

1 Introduction 7
1.1 About this Document 7
1.2 Display Elements 7
1.3 Other Applicable Documents 7
1.4 Generic Terms and Abbreviations Used 7
2 General 8
3 Appendix 9

Identification

Product Version / Document Version

Product version
Prototype

Document release date
November 2024

Doc Code
K559-2254-CWIWP4202201-C06-001

Name and Address of Manufacturer

Manufacturer of the product
FREQCON GmbH
Bürgerwiesenweg 5
D-27336 Rethem, Germany

Legal Information

This work is protected by copyright. Any rights derived from the copyright shall be reserved for FREQCON GmbH. Reproduction of this document or parts of this document is only permissible within the limits of the legal determination of Copyright Law. Any modification, expurgation or translation of this document is prohibited without the express written permission of FREQCON GmbH.
The trademarks stated in this document are the property of their respective owner.
© FREQCON GmbH. All rights reserved.

Original document

This document is an original document of FREQCON GmbH.

1 Introduction

1.1 About this Document

This document is part of the documentation for the Base Load Power Hub (BLPH) Project (K559-2254). In case of any contradiction resulting by the information or specification given in this document, phase 2 or later documents supersede the information provided in this document.

1.2 Display Elements

Symbol	Meaning
➜	Action with one or several steps for which the sequence is irrelevant.
Step 1 : **Step 2 :**	Action with several steps for which the sequence is relevant.
•	First level of list.
-	Second level of list.

Table 1: Display Elements

1.3 Other Applicable Documents

The following documents are applicable:

Document type	Document Name
Single Line Diagram – FREQCON BESS and PCS	10354_23A2007_CAE_Statron_Shell Crosswind BESS FQ 1MW 5MWh Offshore_Single Line Diagram

Table 2: Other applicable documents

1.4 Generic Terms and Abbreviations Used

This following list should help you understand some of the abbreviations used in this document.

Generic Term and Abbreviation	Description
BESS	Battery Energy Storage System
BLPH	Base Load Power Hub
PCS	Power Conversion System

Table 3: Generic terms and abbreviations used

2 General

The electrical single line diagram of the proposed BESS and PCS system is attached to this document (*see section 1.3 "Other Applicable Documents"*).

3 Appendix

1. FREQCON Single Line Diagram:
   10354_23A2007_CAE_Statron_Shell Crosswind BESS FQ 1MW 5MWh Offshore_Single Line Diagram