CEGASA eBick 175 ULTRA Minimum Configuration List

eBick ULTRA 175

REV.	DATE	REASON / RESPONSIBLE
00	28/09/2022	I+D
04	03/10/2023	I+D

1 Introduction

1.1 Purpose

The following document gives useful information regarding the minimum configuration of the CEGASA eBick Li-ion battery and different inverters.

1.2 Disclaimer

The minimum battery configuration stated in this document must be respected by the installer. This document can be modified without prior notice. Please ask Cegasa for the latest version of the document before sizing the storage system.

2 Product & system compatibility

Cegasa batteries have been designed to be installed in a modular fashion. This way, using the needed 48Vdc 13.44kwh battery packs, the required storage capacity can be obtained.

If these modules are installed on plinths, they can be stacked up to four high, without plinths up to two high.

The power interconnection between modules is carried out using fast connectors and the communication control unit, the **TCC CAN**.

3 Minimum Battery Sizing

The following information is provided by CEGASA, it is reproduced here for your convenience and should always be confirmed with the latest CEGASA manuals and specifications.

Each eBick 175 ULTRA module is 280Ah at 48Vdc. Each module has a nominal current charge/discharge of 0.5C. An adequate number of modules should be chosen in order to do not exceed battery current limits.

The charge rates are managed automatically by the TCC and send by communications to the inverter. Temperature effects in hot and cold environments should be considered, as well as the installed solar array maximum power.

The values shown here are the minimum number required by each inverter/charger configuration.

3.1 Minimum Configuration On-grid

Inverter / Charger Brand	**Inverter / Charger Model**	**eBick Module Quantity Single phase**	**eBick Module Quantity Three phase**
Victron	Multiplus & Multiplus II & MP-II GX & EasySolar-II 48/3000/35	1	1
	Multiplus & Multiplus II & MP-II GX & Quattro & EasySolar-II 48/5000/35	1	2
	Inverter RS & Multi RS 48/6000	1	-
	Quattro & Multiplus-II 48/8000/110	2	3
	Quattro & Multiplus-II 48/10000/140	2	4
	Quattro 48/15000/200	3	6
SMA	SI 4.4-M	1	1
	SI 6.0-H	1	2
	SI 8.0-H	1	3
Selectronic	SPMC480-AU	1	2
	SPMC481-AU	1	2
	SPMC482-AU	2	3
Studer	XTM 4000-48	1	3
	XTM 6000-48	2	4
	XTM 8000-48	2	4
	Next1	1	-
	Next3	-	2
Ingeteam	Sun Storage 1 Play 3TL M	1	-
	Sun Storage 1 Play 6TL M	1	-
Goodwe	Serie EM	1	-
	GW3600S-BP	1	-
	GW5000S-BP	1	-
	GW3648D-ES	1	-
	GW5048D-ES	1	-
Solis	Serie RHI	1	-
	Serie EO1	1	2
	Serie EH1	1	-
	Serie RAI	1	-
Steca	Solarix PLI 5000-48	1	3

3.2 Minimum Configuration Off-grid

Inverter / Charger Brand	**Inverter / Charger Model**	**eBick Module Quantity Single phase**	**eBick Module Quantity Three phase**
Victron	Multiplus & Multiplus II & MP-II GX & EasySolar-II 48/3000/35	1	2
	Multiplus & Multiplus II & MP-II GX & Quattro & EasySolar-II 48/5000/35	1	3
	Inverter RS & Multi RS 48/6000	1	3
	Quattro & Multiplus-II 48/8000/110	2	5
	Quattro & Multiplus-II 48/10000/140	2	6
	Quattro 48/15000/200	3	-
SMA	SI 4.4-M	1	2
	SI 6.0-H	1	3
	SI 8.0-H	1	4
Selectronic	SPMC480-AU	1	2
	SPMC481-AU	1	2
	SPMC482-AU	2	6
Studer	XTM 4000-48	1	3
	XTM 6000-48	2	4
	XTM 8000-48	2	4
	Next1	1	-
	Next3	-	2
Ingeteam	Sun Storage 1 Play 3TL M	1	-
	Sun Storage 1 Play 6TL M	1	-
Goodwe	Serie EM	1	-
	GW3600S-BP	1	-
	GW5000S-BP	1	-
	GW3648D-ES	1	-
	GW5048D-ES	1	-
Solis	Serie RHI	1	-
	Serie EO1	1	2
	Serie EH1	1	-
	Serie RAI	1	-
Steca	Solarix PLI 5000-48	1	3