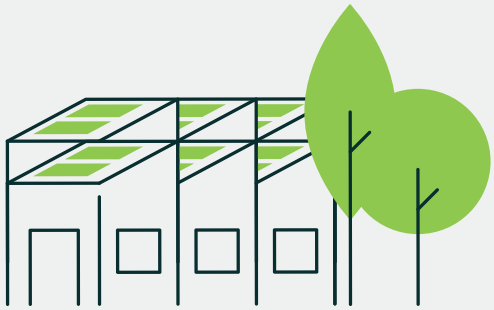
CEGASA

Energy you can trust

E/Xpand MADE IN EUROPE

Rack-mount battery for commercial and industrial applications.



HIGH DENSITY

High energy-density system with high capacity and high efficiency LFP technology.

COMPACT DESIGN

Standard 19" rack design with multiple configurations for easy integration into container solutions.



EASY INSTALLATION

Plug & play installation with quick and safe connectors that reduce installation times.

MAXIMUM PERFORMANCE

Smart control with a string management system for optimal performance.

MAXIMUM SAFETY

LFP technology with smart BMS and automatic pre-charging system for optimal protection.

THERMAL EFFICIENCY

Modules with air cooling to optimise system cycles.

Parque Tecnológico de Álava, Marie Curie 1
01510 Miñano, Álava (Spain)

+34 945 313 738
hello@cegasa.com

cegasa.com

E/Xpand

Technical Datasheet

MINIMUM INSTALLATION

7 modules
Energy: 113 kWh



MINIMUM STRING

7x

+ control unit

Energy: 113 kWh
Rated voltage: 358 V

MAXIMUM STRING

18x

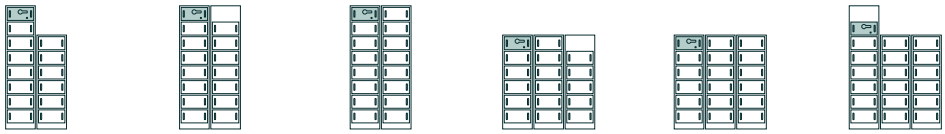
+ control unit

Energy: 289 kWh
Rated voltage: 922 V

Up to 10 strings.



MODULES	7	8	9	10	11	12
Energy (kWh)	113	129	145	161	177	193
System reference	ESS-EX7-115257	ESS-EX8-115258	ESS-EX9-115259	ESS-EX10-115260	ESS-EX11-115261	ESS-EX12-115262
Usable energy (kWh, 90% DoD)	101	116	130	145	156	174
Nominal voltage (V)	358	410	461	512	563	613
Voltage range (V)	325–386	371–442	418–497	464–552	510–607	557–662
Recommended current (A)	140					
Maximum current (A)* CH/DCH	150/200					
Peak current (A) (<1 min)* DCH	350					
Nominal power (kW)	50	57	64,5	72	79	86
Internal resistance (mΩ)	46,1	52,5	58,9	65,3	71,7	78,1
Dimensions (mm)	550x832x2150	1100x832x1640	1100x832x1640	1100x832x1640	1100x832x1640	1100x832x2150
Weight (kg)	970	1150	1270	1390	1510	1650



MODULES	13	14	15	16	17	18
Energy (kWh)	209	225	241	257	273	289
System reference	ESS-EX13-115263	ESS-EX14-115264	ESS-EX15-115265	ESS-EX16-115266	ESS-EX17-115267	ESS-EX18-115268
Usable energy (kWh, 90% DoD)	188	203	217	232	246	260
Nominal voltage (V)	666	717	768	819	870	922
Voltage range (V)	603–718	650–773	696–828	742–883	789–938	835–993
Recommended current (A)	140					
Maximum current (A)* CH/DCH	150/200					
Peak current (A) (<1 min)* DCH	350					
Nominal power (kW)	93	100	107,5	114,5	122	129
Internal resistance (mΩ)	84,5	90,9	97,3	103,7	110,1	116,5
Dimensions (mm)	1100x832x2150	1100x832x2150	1100x832x2150	1650x832x1640	1650x832x1640	1650x832x2150
Weight (kg)	1770	1920	2050	2190	2310	2460

GENERAL

Cycles [1]	> 6000
Operating ambient temp (°C)	From -5 to 45
Protection rating	IP30
Efficiency [1]	> 98%
DoD max.	90% (configurable)
Communications	CAN, Modbus TCP/IP (Sunspec)
Certifications	CE / IEC62619 / IEC62620 / EN61000-6-2 / EN61000-6-3 / UN38.3
IEC 62620 Nomenclature	IFpP73/175/209[1p16s]M/0+50/90

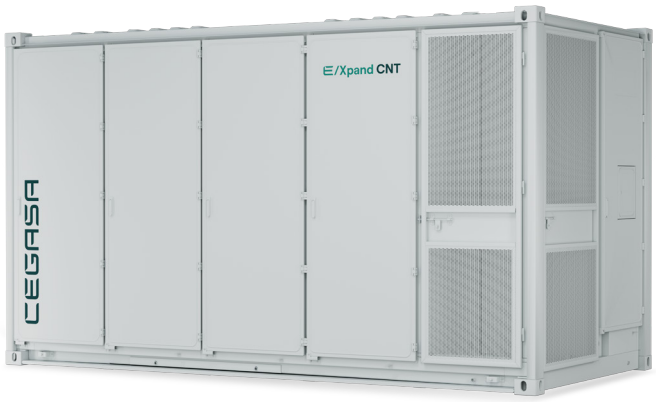
[1] Test conditions: 0.2C / 25°C / 90% DoD | *Derating may be applicable due to temperature and voltage

E/Xpand

Technical Datasheet

SPECIFIC SOLUTIONS (BESS).





	NORMAL HEIGHT Height: 2150 mm	HIGH CUBE Height: 2405 mm
		
MODULES	**15**	**17**
Energy (kWh)	241	273
System reference	ESS-EX15-115265	ESS-EX17-115267
Usable energy (kWh, 90% DoD)	217	246
Nominal voltage (V)	768	870
Voltage range (V)	696–828	789–938
Recommended current (A)	140	
Maximum current (A)* CH/DCH	150/200	
Peak current (A) (<1 min)* DCH	350	
Nominal power (kW)	107,5	122
Internal resistance (mΩ)	97,3	110,1
Dimensions (mm)	1100x832x2150	1100x832x2405
Weight (kg)	2050	2310

GENERAL	
Cycles [1]	> 6000
Operating ambient temp (°C)	From -5 to 45
Protection rating	IP30
Efficiency [1]	> 98%
DoD max.	90% (configurable)
Communications	CAN, Modbus TCP/IP (Sunspec)
Certifications	CE / IEC62619 / IEC62640-1 / EN61000-6-2 / EN61000-6-3 / UN38.3

[1] Test conditions: 0.2C / 25°C / 90% DoD | *Derating may be applicable due to temperature and voltage