FOX ESS

DATASHEET

CQ7

HIGH VOLTAGE STORAGE BATTERY

The CQ7 is a high-performance, scalable battery storage system. Its modular design allows for maximum flexibility, making it suitable for a wide range of storage applications.
Additional batteries can be installed in series, allowing for a maximum storage capacity of 97.44 kWh. Installation is simple, featuring a plug and play solution that saves valuable time for installers.



- 6.96kWh capacity
- Scalable to 97.44kWh
- 90% Depth of Discharge
- Wide operating temperature range
- CAN communication

HIGH VOLTAGE

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

90% DOD

www.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	CQ7 -L2	-L3	-L4	-L5	-L6	-L7	-L8	-L9	-L10	-L11	-L12	-L13	-L14
ELECTRICAL CHARACTERISTICS													
Battery Type	LFP ($LiFePO_4$)												
Battery Module (CQ7-M)	1												
Battery Module (CQ7-S)	1	2	3	4	5	6	7	8	9	10	11	12	13
Nominal Energy [kWh]	13.92	20.88	27.84	34.80	41.76	48.72	55.68	62.64	69.60	76.56	83.52	90.48	97.44
Nominal Voltage [V]	115.2	172.8	230.4	288.0	345.6	403.2	460.8	518.4	576.0	633.6	691.2	748.8	806.4
Operating Voltage [V]	104.4 ~ 919.8												
Recommend Charge/Discharge Current [A]	50												
Max. Charge/Discharge Current [A]*1	80												
Peak Discharge Current (60s) [A]	120												
Battery Pack Round-Trip Efficiency [%]*2	>95												
Depth of Discharge [%]	90												
Communication	CAN												
Display	CQ7-S: LED*1, CQ7-M: LED*6												
Scalability	Max. 14 Modules in Series												
OPERATING CONDITIONS													
Installation Location	Outdoor/ Indoor (Stand)												
Operating Temperature [°C]*3	Charge: 0 ~ 55, Discharge: -10 ~ 55												
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55												
Storage Temperature [°C]	-10 ~ 50												
Cooling Method	Natural Convection												
Humidity [%]	5 ~ 95 (No Condensation)												
Altitude [m]	Max. 3,000												
PROTECTION													
Fire Protection Function	YES												
MECHANICAL CHARACTERISTICS													
Dimensions (W*D*H) [mm]	660*360												
	*420	*575	*730	*885	*1040	*1195	*1350	*1505	*1660	*1815	*1970	*2125	*2280
Weight [kg] (±5%)	105.5	156.0	206.5	257.0	307.5	358.0	408.5	459.0	509.5	560.0	610.5	661.0	711.5
Cell Net Weight [kg] (±5%)	72.4	108.5	144.7	180.9	217.1	253.3	289.4	325.6	361.8	398.0	434.2	470.3	506.5
CERTIFICATES													
Safety	IEC 62619												
EMC	IEC 61000-6-1/2/3/4												
Transportation	UN38.3												
Ingress Protection	IP65												

*1 The current is affected by temperature, cell voltage and SOC.

*2 @25°C, 0.3C charging/discharging.

*3 Charge and discharge power reduction applies at low temperatures.

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