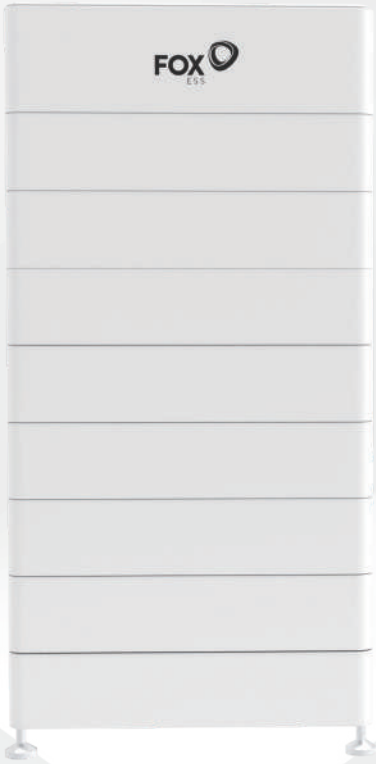
FOX ESS

DATASHEET

CQ7

HIGH VOLTAGE STORAGE BATTERY



- 6.96kWh capacity
- Scalable to 97.44kWh
- 100% Depth of Discharge
- Large temperature tolerance
- CAN communication

HIGH VOLTAGE

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

100% DOD

The CQ7 is a high-performance, scalable battery storage system. The modular design allows for maximum flexibility, making it suitable for a broad range of storage applications.

Additional batteries can be installed in series, allowing for a maximum storage capacity of 97.44kWh. Installation is easy, with a plug and play solution that can save valuable time for installers.

For more information about the Fox ESS range, visit:
www.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	CQ7 -L2 CQ7 -L2 (w)	CQ7 -L3 CQ7 -L3 (w)	CQ7 -L4 CQ7 -L4 (w)	CQ7 -L5 CQ7 -L5 (w)	CQ7 -L6 CQ7 -L6 (w)	CQ7 -L7 CQ7 -L7 (w)	CQ7 -L8 CQ7 -L8 (w)	CQ7 -L9 CQ7 -L9 (w)	CQ7 -L10 CQ7 -L10 (w)	CQ7 -L11 CQ7 -L11 (w)	CQ7 -L12 CQ7 -L12 (w)	CQ7 -L13 CQ7 -L13 (w)	CQ7 -L14 CQ7 -L14 (w)
ELECTRICAL CHARACTERISTICS													
Battery Type	LFP ($LiFePO_4$)												
Battery Module [CQ7-M/CQ7-M (w)]*	1												
Battery Module [CQ7-S/CQ7-S (w)]*	1	2	3	4	5	6	7	8	9	10	11	12	13
Nominal Capacity [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
Usable Capacity [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
Nominal Power [kW]	9.22	13.82	18.43	23.04	27.65	32.26	36.86	41.47	46.08	50.69	55.30	59.90	64.51
Operating Voltage [V]	104.4 ~ 919.8												
Max. Charge/Discharge Current [A][*1]	80												
Battery Pack Round-Trip Efficiency [%][*2]	>95												
Depth of Discharge [%]	100												
Communication	CAN												
Display	CQ7-S/CQ7-S (w): LED*1, CQ7-M/CQ7-M (w): LED*6												
Scalability	Max. 14 Modules in Series												
OPERATING CONDITIONS													
Installation Location	Outdoor/ Indoor (Stand)												
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55												
Operating Temperature [°C] (warm up function on, optional)[*3]	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
CERTIFICATES													
Safety	IEC 62619												
EMC	IEC 61000-6-1/2/3/4												
Transportation	UN38.3												
Ingress Protection	IP65												
MANUFACTURE													
Country of Manufacture	China												

*CQ7-S/CQ7-S (w) is the battery module, and CQ7-M/CQ7-M (w) includes system controller and battery module.
CQ7-M/CQ7-M (w) contains the controller of the entire system, so each system must have 1 CQ7-M/CQ7-M (w).
Ensure that each system has only 1 CQ7-M/CQ7-M (w) and a maximum of 13 CQ7-S/CQ7-S (w).
For CQ7-Lx, only CQ7-M & CQ7-S modules shall be stacked. For CQ7-Lx (w), only CQ7-M (w) & CQ7-S (w) modules shall be stacked.

*1, The current is affected by temperature, cell voltage and SOC.
*2, @25°C, 0.3C charging/discharging.
*3, Warm up function is available for CQ7-L2 (w), CQ7-L3 (w), CQ7-L4 (w), CQ7-L5 (w), CQ7-L6 (w), CQ7-L7 (w), CQ7-L8 (w), CQ7-L9 (w), CQ7-L10 (w), CQ7-L11 (w), CQ7-L12 (w), CQ7-L13 (w), CQ7-L14 (w).