FOX ESS

POWERQ
ENERGY in a NEW LIGHT

DATASHEET

# CQ7

HIGH VOLTAGE STORAGE BATTERY




- 7.02kWh capacity
- Scalable to 98.28kWh
- 90% Depth of Discharge
- Large temperature tolerance
- CAN communication

HIGH VOLTAGE

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

90% 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 98.28kWh. Installation is easy, with a plug and play solution that can save valuable time for installers.

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C 302680 US



## TECHNICAL SPECIFICATIONS

| MODEL | CQ7-US | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -L2 | -L3 | -L4 | -L5 | -L6 | -L7 | -L8 | -L9 | -L10 | -L11 | -L12 | -L13 | -L14 |
| **ELECTRICAL CHARACTERISTICS** | | | | | | | | | | | | | |
| Battery Type | LFP ($LiFePO_4$) | | | | | | | | | | | | |
| Battery Module (CQ7-US-M) | 1 | | | | | | | | | | | | |
| Battery Module (CQ7-US-S) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Nominal Capacity [kWh] | 14.04 | 21.06 | 28.08 | 35.10 | 42.12 | 49.14 | 56.16 | 63.18 | 70.20 | 77.22 | 84.24 | 91.26 | 98.28 |
| 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 | 60 | | | | | | | | | | | | |
| Peak Discharge Current [A] | 110 @60sec | | | | | | | | | | | | |
| Battery Pack Round-Trip Efficiency [%]*2 | >95 | | | | | | | | | | | | |
| Depth of Discharge [%] | 90 | | | | | | | | | | | | |
| Communication | CAN | | | | | | | | | | | | |
| Display | CQ7-US-S: LED*1, CQ7-US-M: 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) | 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%) | 102.8 | 151.6 | 200.4 | 249.2 | 298.0 | 346.8 | 395.6 | 444.4 | 493.2 | 542.0 | 590.8 | 639.6 | 688.4 |
| **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.

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