FOX ESS

DATASHEET

CQ20

HIGH VOLTAGE STORAGE BATTERY

The CQ20 is a high-performance, scalable battery storage system designed for maximum flexibility, making it suitable for a wide range of energy storage applications.



- 19.96 kWh Capacity
- Scalable from 79.84kWh to 319.36 kWh
- 95% Depth of Discharge
- Floor Mounting
- IP67 Protection Level
- Integrated with HV Box & Base Design

HIGH VOLTAGE

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

95% DOD

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TECHNICAL SPECIFICATIONS

MODEL	CQ20 / CQ20 (W) *3
Nominal Energy [kWh]	19.96
Nominal Voltage [Vdc]	51.2
Operating Voltage [Vdc]	46.4 ~ 58.2
Recommend Charge/Discharge Current [A]	196
Max. Charge/Discharge Current [A]*1	196/240
Peak Discharge Current [A]	431.2 @60S
Depth of Discharge [%]	95
Display	PACK: LED*1, CQ Plus-Box: LED*5
Scalability	Max. 16 Modules in Series
Installation Location	Indoor & Outdoor
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55
Operating Temperature [°C]*2 (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55
Storage Temperature [°C]	-10 ~ 55
Humidity [%]	5 ~ 95 (No Condensation)
Altitude [m]	Max. 3000
Cooling Method	Intelligent air cooling
Warming Function	Optional
Fire Protection Function	Yes
Dimension (W*H*D) [mm]	930*270*450
Weight Approximate [kg] (±5%)	150.0
Cell Net Weight [kg] (±5%)	110
Safety	IEC 62619
EMC	IEC61000-6-1/2/3/4
Transportation	UN38.3
Ingress Protection	IP66
MODEL	**CQ Plus-Box**
Rated Energy Range [kWh]	79.84~ 319.36
Operating Voltage Range [Vdc]	101 ~ 1000
Max. Charge/Discharge Current [A]*1	240
Current Measurement Range [A]	-240 ~ +240
Total Voltage Measurement Accuracy [%FSR]	±0.5
Charge/Discharge Efficiency [%]	>93
Communication	CAN
Operating Temperature [°C]*2	Charge: -25 ~ 55, Discharge: -25 ~ 55
Storage Temperature [°C]	-10 ~ 55
Humidity [%]	5 ~ 95 (No Condensation)
Dimensions (W*H*D) [mm]	920*230*888
Weight [kg] (±5%)	50
Ingress Protection	IP67
MODEL	**CQ Plus-Base (Optional) *4**
Max. Charge/Discharge Current [A]*1	240
Current Measurement Range [A]	-240 ~ +240
Operating Temperature [°C]*2	Charge: -25 ~ 55, Discharge: -25 ~ 55
Storage Temperature [°C]	-10 ~ 55
Humidity [%]	5 ~ 95 (No Condensation)
Dimensions (W*H*D) [mm]	920*230*888
Weight [kg] (±5%)	42
Ingress Protection	IP67

* Min. 4 batteries per system.

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

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

*3 Warm up function is available for, CQ20 (W).

*4 When the number of slave batteries > 8, this option is recommended to reduce installation height and facilitate installation.