

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**



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TECHNICAL SPECIFICATIONS

MODEL	-L2	-L3	-L4	-L5	-L6	-L7	CQ7		-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														
Cycle Life	≥8000														
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%)	724	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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