

# 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 98.28 kWh. Installation is simple, featuring a plug and play solution that saves valuable time for installers.



- 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**



# TECHNICAL SPECIFICATIONS

MODEL	CQ7-80													
	-L2	-L3	-L4	-L5	-L6	-L7	-L8	-L9	-L10	-L11	-L12	-L13	-L14	
<b>ELECTRICAL CHARACTERISTICS</b>														
Battery Type	LFP (LiFePO <sub>4</sub> )													
Battery Module (CQ7-M-80)	1													
Battery Module (CQ7-S-80)	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] <sup>*1</sup>	80													
Peak Discharge Current [A]	110 @60sec													
Battery Pack Round-Trip Efficiency [%] <sup>*2</sup>	>95													
Depth of Discharge [%]	90													
Communication	CAN													
Display	CQ7-S-80: LED*1, CQ7-M-80: LED*6													
Scalability	Max. 14 Modules in Series													
<b>OPERATING CONDITIONS</b>														
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													
<b>PROTECTION</b>														
Fire Protection Function	YES													
<b>MECHANICAL CHARACTERISTICS</b>														
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	
<b>CERTIFICATES</b>														
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.