FOX ESS

POWERQ
ENERGY in a NEW LIGHT

DATASHEET

ECS4000

HIGH VOLTAGE STORAGE BATTERY



- 3.97kWh capacity
- Scalable to 27.8kWh
- 90% Depth of Discharge
- Wide Temperature Tolerance
- CAN communication
- Voltage Range up to 459.9V

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

90% DOD

The ECS 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 27.8kWh. Installation is easy, with a plug and play solution that can save valuable time for installers.

POWERQ ENERGY in a NEW LIGHT

C 302680 US



TECHNICAL SPECIFICATIONS

MODEL	ECS4000-H2	ECS4000-H3	ECS4000-H4	ECS4000-H5	ECS4000-H6	ECS4000-H7
ELECTRICAL CHARACTERISTICS						
Battery Type			$LiFePO_4$			
Battery Module	1*CM 1*CS	1*CM 2*CS	1*CM 3*CS	1*CM 4*CS	1*CM 5*CS	1*CM 6*CS
Nominal Capacity [kWh]	7.95	11.92	15.9	19.87	23.85	27.82
Nominal Voltage [V]	115.2	172.8	230.4	288	345.6	403.2
Operating Voltage [V]	97.2~131.4	145.8~197.1	194.4~262.8	243~328.5	291.6~394.2	340.2~459.9
Max. Charge / Discharge Current [A]			50			
Peak Discharge Current [A]			65 @60sec			
Round-trip Efficiency [%]			>95			
Depth of Discharge [%]			90			
Communication			CAN			
Display			CS: LED*1, CM: LED*6			
Scalability			Max. 7 Modules in Series			
OPERATING CONDITIONS						
Installation Location			Outdoor / Indoor (Stand)			
Operating Temperature [°F / °C] (North America)			-13 ~ +131 / -25 ~ +55 (Derating above 104 / 40)			
Operating Temperature [°F / °C] (Non-North America)			14 ~ +131 / 10 ~ +55 (Derating above 104 / 40)			
Storage Temperature [°F / °C]			-4 ~ +131 / -20 ~ +55			
Cooling Method			Natural Convection			
Humidity [%]			0 ~ 100 (No condensation)			
Max. Altitude [ft / m]			6,560 / 2,000			
MECHANICAL CHARACTERISTICS						
Dimensions (W*H*D) [mm]	570*350*380	570*470*380	570*590*380	570*710*380	570*830*380	570*950*380
Dimensions (W*H*D) [inch]	22.4*13.8*15.0	22.4*18.5*15.0	22.4*23.2*15.0	22.4*28.0*15.0	22.4*32.7*15.0	22.4*37.4*15.0
Weight [kg/lbs]	73.5 / 161.7	108.4 / 238.5	143.3 / 315.3	178.2 / 392	213.1 / 468.8	248 / 545.6
CERTIFICATES						
Safety			UL1973, UL9540, UL9540A			
Transportation			UN38.3			
Ingress Protection			IP65			
WARRANTY						
Standard Warranty [year]			12.5*1			

*1, Refer to Fox ESS Battery Warranty Terms and Conditions.