FALCON
ESS

DATASHEET

EP5

HIGH VOLTAGE STORAGE BATTERY

The EP5 is a high-performance, scalable battery storage system. Its modular design allows for maximum flexibility, making it suitable for a broad range of storage applications. Additional batteries can be installed in parallel allowing for maximum storage capacity of 20.8kWh.



- Scalable to 20.8kWh
- 90% Depth of Discharge
- Floor or Wall Mounting
- Compact & Easy Installation
- IP65 Protection Level

HIGH VOLTAGE | EASY INSTALLATION | HIGH EFFICIENCY | EXPANDABLE SYSTEM | 90% DOD

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TECHNICAL SPECIFICATIONS

SYSTEM NAME	EP5
ELECTRICAL CHARACTERISTICS	
Battery Type	LFP ($LiFePO_4$)
Nominal Energy [kWh]	5.18
Nominal Voltage [V]	192.0
Operating Voltage [V]	174.0 ~ 219.0
Max. Charge/Discharge Current [A]*1	27
Recommend Charge Current [A]	13.5
Peak Discharge Current [A]	65 @60s
Peak Charge Current [A]	32.4 @5s
Battery Pack Round-Trip Efficiency [%]*2	≥95
Depth of Discharge [%]	90
Communication	CAN
Display	LED*5
Scalability	Max. 4 Units in Parallel
OPERATING CONDITIONS	
Installation Location	Outdoor/ Indoor
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]	0 ~ 35
Cooling Method	Natural Convection
Humidity [%]	5 ~ 95 (No Condensation)
Altitude [m]	Max. 3,000
PROTECTION	
Fire Protection Function	YES
MECHANICAL CHARACTERISTICS	
Dimensions (W*H*D) [mm]	380*625*147
Weight [kg] (±5%)	50.5
Cell Net Weight [kg] (±5%)	33.6
CERTIFICATES	
Safety	IEC62619
EMC	EN 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.