

# Fox ESS ECS BATTERY STORAGE SYSTEM



## HIGH VOLTAGE BATTERY FROM Fox ESS

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

- 2.76kWh capacity
- Scalable to 19.35 kWh
- 90% Depth of Discharge
- Large temperature tolerance
- Easy installation
- CAN communication
- High voltage



High Voltage



Simple Installation



High Efficiency



Expandable System



90% DoD

# Fox ESS

## ECS SERIES

### ECS2800-H2/H3/H4/H5/H6/H7

| MODEL                                  | ECS2800<br>-H2                        | ECS2800<br>-H3       | ECS2800<br>-H4       | ECS2800<br>-H5       | ECS2800<br>-H6       | ECS2800<br>-H7       |
|--|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>ELECTRICAL CHARACTERISTICS</b>      |                                       |                      |                      |                      |                      |                      |
| Battery Type                           | LiFePO4 Prismatic Cell                |                      |                      |                      |                      |                      |
| Battery Module                         | 1*CM2800<br>1*CS2800                  | 1*CM2800<br>2*CS2800 | 1*CM2800<br>3*CS2800 | 1*CM2800<br>4*CS2800 | 1*CM2800<br>5*CS2800 | 1*CM2800<br>6*CS2800 |
| Nominal Capacity [Wh]                  | 5530                                  | 8290                 | 11060                | 13820                | 16590                | 19350                |
| Nominal Voltage [V]                    | 115.2                                 | 172.8                | 230.4                | 288                  | 345.6                | 403.2                |
| Operating Voltage [V]                  | 104.4 ~ 132.4                         | 156.6 ~ 198.7        | 208.8 ~ 264.9        | 261.0 ~ 331.2        | 313.2 ~ 397.4        | 365.4 ~ 463.6        |
| Recommend Discharge Current [A]        | 24                                    |                      |                      |                      |                      |                      |
| Max. Charge/Discharge Current [A]      | 48                                    |                      |                      |                      |                      |                      |
| Peak Discharge Current [A]             | 65 @60sec                             |                      |                      |                      |                      |                      |
| Battery Pack Round-Trip Efficiency [%] | >95                                   |                      |                      |                      |                      |                      |
| Depth of discharge [%]                 | 90                                    |                      |                      |                      |                      |                      |
| Cycle Life *1                          | ≥6000                                 |                      |                      |                      |                      |                      |
| Communication                          | CAN                                   |                      |                      |                      |                      |                      |
| Display                                | CS: LED*1, CM: LED*6                  |                      |                      |                      |                      |                      |
| Scalability                            | Max. 7 Modules in Series              |                      |                      |                      |                      |                      |
| <b>OPERATING CONDITIONS</b>            |                                       |                      |                      |                      |                      |                      |
| Installation Location                  | Outdoor/ Indoor (Stand)               |                      |                      |                      |                      |                      |
| Operating Temperature [°C]*2           | Charge: 0 ~ 55<br>Discharge: -10 ~ 55 |                      |                      |                      |                      |                      |
| Storage Temperature [°C]               | -20 ~ 55                              |                      |                      |                      |                      |                      |
| Cooling method                         | Natural Convection                    |                      |                      |                      |                      |                      |
| Humidity [%]                           | 5 ~ 95 (No Condensing)                |                      |                      |                      |                      |                      |
| Altitude [m]                           | Max. 2,000                            |                      |                      |                      |                      |                      |
| <b>MECHANICAL CHARACTERISTICS</b>      |                                       |                      |                      |                      |                      |                      |
| Dimensions (W*H*D) [mm]                | 570*350*380                           | 570*470*380          | 570*590*380          | 570*710*380          | 570*830*380          | 570*950*380          |
| Weight [kg]                            | 65±1                                  | 95.5±1.5             | 126±2                | 157±2.5              | 187±3                | 217±3.5              |
| <b>CERTIFICATES</b>                    |                                       |                      |                      |                      |                      |                      |
| Safety                                 | IEC 62619                             |                      |                      |                      |                      |                      |
| EMC                                    | IEC 61000-6-1/2/3/4                   |                      |                      |                      |                      |                      |
| Transportation                         | UN38.3                                |                      |                      |                      |                      |                      |
| Ingress Protection                     | IP65                                  |                      |                      |                      |                      |                      |

\*1, 25°C, @90% DOD, 0.5C charging/discharging.

\*2, Charge derating will occur between 0°C and +15°C.

