



DATASHEET

Split-Phase Hybrid

HI&AC1-3.8-US / 5.7 / 7.6 / 9.6 / 11.4

# US SERIES



FOX storage solutions are available with advanced and intuitive App based remote control and monitoring functionality.



## EASY INSTALLATION

Flexible configuration, plug and play set-up.



## HIGH VOLTAGE

Compatible with high-voltage batteries for maximum round-trip efficiency.



## NEMA 4X

Engineered to last with maximum flexibility. Suitable for outdoor installation.



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



REFINED – POWERFUL – FLEXIBLE

## BATTERY EXPANSION EASY UPGRADE



Expand your system easily by simply adding additional batteries. There are six battery size options, and seven batteries can be installed in series, providing up to 27.8 kWh of storage capacity.

For more about Fox's products, visit:

[WWW.FOX-ESS.COM](http://WWW.FOX-ESS.COM)



TECHNICAL SPECIFICATIONS

| Model                                                              | AC1-3.8-US<br>H1-3.8-US | AC1-5.7-US<br>H1-5.7-US                                   | AC1-7.6-US<br>H1-7.6-US                            | AC1-9.6-US<br>H1-9.6-US | AC1-11.4-US<br>H1-11.4-US |
|--------------------------------------------------------------------|-------------------------|-----------------------------------------------------------|----------------------------------------------------|-------------------------|---------------------------|
| PV INPUT (ONLY FOR HYBRID)                                         |                         |                                                           |                                                    |                         |                           |
| Max. Input Power [W]                                               | 5700                    | 8550                                                      | 11400                                              | 14400                   | 17100                     |
| Max. Input Voltage [V]                                             |                         |                                                           | 600                                                |                         |                           |
| Start-up Input Voltage [V]                                         |                         |                                                           | 100                                                |                         |                           |
| Rated Input Voltage [V]                                            |                         |                                                           | 380                                                |                         |                           |
| MPPT Operating Voltage Range [V]                                   |                         |                                                           | 80~550                                             |                         |                           |
| MPPT Operating Voltage Range [V] (Full Load)                       | 204~500                 | 204~500                                                   | 271~500                                            | 257~500                 | 305~500                   |
| Max. Input Current [A]                                             |                         | 28 / 14                                                   |                                                    | 28 / 14 / 14            |                           |
| Max. Short-circuit Current [A]                                     |                         | 44 / 22                                                   |                                                    | 44 / 22 / 22            |                           |
| No. of Independent MPP Trackers                                    |                         | 2                                                         |                                                    | 3                       |                           |
| No. of Strings per MPP Tracker                                     |                         | 2 / 1                                                     |                                                    | 2 / 1 / 1               |                           |
| BATTERY CONNECTION                                                 |                         |                                                           |                                                    |                         |                           |
| Battery Type                                                       |                         |                                                           | Lithium Battery (LFP)                              |                         |                           |
| Battery Voltage Range [V]                                          |                         |                                                           | 85~460                                             |                         |                           |
| Rated Battery Voltage [V]                                          |                         |                                                           | 360                                                |                         |                           |
| Max. Continuous Charge / Discharge Current [A]                     |                         |                                                           | 50                                                 |                         |                           |
| Max. Continuous Charge / Discharge Power [W] (FOR H1)              | 5700/4180               | 8550/6270                                                 | 11400/8360                                         | 14400/10560             | 17100/12540               |
| (FOR AC1)                                                          | 3800/4180               | 5700/6270                                                 | 7600/8360                                          | 9600/10560              | 11400/12540               |
| Max. Discharge Current (60s) [A]                                   |                         |                                                           | 60.0                                               |                         |                           |
| BMS Communication Interface                                        |                         |                                                           | CAN 2.0                                            |                         |                           |
| AC INPUT AND OUTPUT (GRID)                                         |                         |                                                           |                                                    |                         |                           |
| Max. AC Input Power [VA]                                           | 3800                    | 5700                                                      | 7600                                               | 9600                    | 11400                     |
| Max. AC Input Current [A]                                          | 16                      | 24                                                        | 32                                                 | 40                      | 48                        |
| Input Voltage Range [V]                                            |                         |                                                           | 211~264                                            |                         |                           |
| Input Frequency Range [Hz]                                         |                         |                                                           | 57~63                                              |                         |                           |
| Rated Output Power [W]                                             | 3800                    | 5700                                                      | 7600                                               | 9600                    | 11400                     |
| Max. Output Apparent Power [VA]                                    | 3800                    | 5700                                                      | 7600                                               | 9600                    | 11400                     |
| Rated Output Current [A]                                           | 15.8                    | 23.8                                                      | 31.7                                               | 40.0                    | 47.5                      |
| Max. Output Current [A]                                            | 15.8                    | 23.8                                                      | 31.7                                               | 40.0                    | 47.5                      |
| Rated Grid Voltage [V]                                             |                         |                                                           | 240 (211~264)                                      |                         |                           |
| Rated Grid Frequency [Hz]                                          |                         |                                                           | 57~63                                              |                         |                           |
| Power Factor                                                       |                         |                                                           | >0.99 (Adjustable from 0.8 leading to 0.8 lagging) |                         |                           |
| THDi                                                               |                         |                                                           | <3% @rated power                                   |                         |                           |
| AC OUTPUT (BACKUP)                                                 |                         |                                                           |                                                    |                         |                           |
| Rated Output Power [W]                                             | 3800                    | 5700                                                      | 7600                                               | 9600                    | 11400                     |
| Max. Output Apparent Power [VA]                                    | 4180                    | 6270                                                      | 8360                                               | 10560                   | 12540                     |
| Peak Output Apparent Power (10min) [VA]                            | 4560                    | 6840                                                      | 9120                                               | 11520                   | 13680                     |
| Peak Output Apparent Power (60s) [VA]                              | 5130                    | 7695                                                      | 10260                                              | 12960                   | 15390                     |
| Max. Continuous Output Current [A]                                 | 17.4                    | 26.1                                                      | 34.8                                               | 44.0                    | 52.3                      |
| Rated Output Voltage [V]                                           |                         |                                                           | 120 / 240                                          |                         |                           |
| Rated Output Frequency [Hz]                                        |                         |                                                           | 60                                                 |                         |                           |
| THDv ( Linear Load)                                                |                         |                                                           | <3% @rated power                                   |                         |                           |
| Imbalance for Split-Phase Loads                                    |                         |                                                           | 100%                                               |                         |                           |
| EFFICIENCY                                                         |                         |                                                           |                                                    |                         |                           |
| CEC Efficiency                                                     |                         |                                                           | 97.00%                                             |                         |                           |
| Max. Efficiency                                                    |                         |                                                           | 97.60%                                             |                         |                           |
| Max. Battery Discharge Efficiency (BAT to AC) (@full load, 340Vdc) |                         |                                                           | 97.40%                                             |                         |                           |
| PROTECTION                                                         |                         |                                                           |                                                    |                         |                           |
| Insulation Monitoring                                              |                         |                                                           | YES                                                |                         |                           |
| Residual Current Monitoring                                        |                         |                                                           | YES                                                |                         |                           |
| DC Reverse Polarity Protection                                     |                         |                                                           | YES                                                |                         |                           |
| Anti-islanding Protection                                          |                         |                                                           | YES                                                |                         |                           |
| AC Short-circuit Protection                                        |                         |                                                           | YES                                                |                         |                           |
| AC Overcurrent / Overvoltage Protection                            |                         |                                                           | YES                                                |                         |                           |
| DC Switch                                                          |                         |                                                           | YES                                                |                         |                           |
| SPD                                                                |                         |                                                           | DC: Type II, /AC: Type II                          |                         |                           |
| AFCI                                                               |                         |                                                           | YES                                                |                         |                           |
| GENERAL DATA                                                       |                         |                                                           |                                                    |                         |                           |
| Demensions (HxWxD)                                                 |                         | 25.2*17.7*9.6 inch (640*450*244mm)                        |                                                    |                         |                           |
| Weight [lbs]                                                       |                         | 83.3 (38kg)                                               |                                                    |                         |                           |
| Installation                                                       |                         | Wall-mounted                                              |                                                    |                         |                           |
| Topology                                                           |                         | Transformerless                                           |                                                    |                         |                           |
| Cooling Method                                                     |                         | Natural convection                                        |                                                    |                         |                           |
| Noise Emission [db]                                                |                         | <35                                                       |                                                    |                         |                           |
| Max. Operating Altitude                                            |                         | 9843 ft (3000 m), derating above 6560 ft (2000 m)         |                                                    |                         |                           |
| Operating Temperature Range                                        |                         | -13°F~-140°F (-25°C ~ +60°C), derating above 104°F (40°C) |                                                    |                         |                           |
| Humidity                                                           |                         | 0% to 100% (No Condensation)                              |                                                    |                         |                           |
| Protection Degree                                                  |                         | NEMA 4X                                                   |                                                    |                         |                           |
| Standby consumption [W]                                            |                         | <25                                                       |                                                    |                         |                           |
| Monitoring Module                                                  |                         | WiFi+LAN, 4G (Optional)                                   |                                                    |                         |                           |
| Communication                                                      |                         | CAN2.0, RS485, SUNSPEC                                    |                                                    |                         |                           |
| Display                                                            |                         | LED, App, Website                                         |                                                    |                         |                           |
| Warranty                                                           |                         | 10 Years                                                  |                                                    |                         |                           |
| STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)                  |                         |                                                           |                                                    |                         |                           |
| Safety                                                             |                         | UL1741, UL1741 SA, UL1699B, CSA C22.2, UL62109-1, UL1998  |                                                    |                         |                           |
| EMC                                                                |                         | FCC Part 15 Class B                                       |                                                    |                         |                           |
| Grid Regulation                                                    |                         | IEEE1547, IEEE1547.1, Rule 21                             |                                                    |                         |                           |