

# HYBRID

## 3-PHASE AIO

### ALL-IN-ONE ENERGY STORAGE

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, built-in fuse protection.



#### High Voltage

Includes high-voltage batteries for maximum round-trip efficiency.



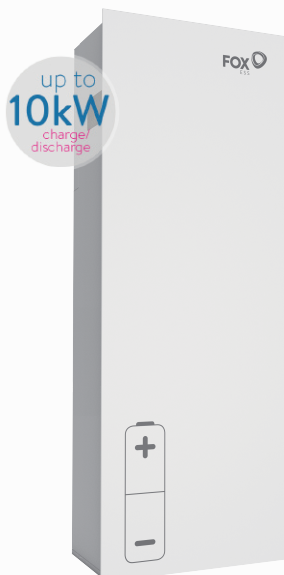
#### IP65 Rated

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



#### Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



UNBALANCED LOADS SUPPORTED  
EPS OPTION

## BATTERY EXPANSION EASY UPGRADE



A high-performance, high-efficiency all-in-one system with 10.4kWh of storage capacity and up to 10kW rate of continuous charge/discharge.

For more about the Fox range of storage solutions, visit:

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



# TECHNICAL SPECIFICATIONS

| Model                                         | AIO-H3-5.0-E  | AIO-H3-6.0-E                                                            | AIO-H3-8.0-E                                                          | AIO-H3-10.0-E |
|-----------------------------------------------|---------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------|
| INPUT PV                                      |               |                                                                         |                                                                       |               |
| Max. recommended DC power [W]                 | A:3000/B:3000 | A:4000/B:4000                                                           | A:6000/B:4000                                                         | A:8000/B:5000 |
| Max. DC voltage [V]                           |               |                                                                         | 1000                                                                  |               |
| Nominal DC operating voltage [V]              |               |                                                                         | 720                                                                   |               |
| Max. input current (input A/input B) [A]      | 13.5A/13.5A   | 13.5A/13.5A                                                             | 26A/13.5A                                                             | 26A/13.5A     |
| Start-Up voltage [V]                          |               |                                                                         | 180V                                                                  |               |
| PV work range [Vdc]                           |               |                                                                         | 160-950                                                               |               |
| MPPT voltage range (Full load) [Vdc]          | 210-800       | 250-800                                                                 | 240-800                                                               | 280-800       |
| No. of MPP trackers                           |               |                                                                         | 2                                                                     |               |
| Strings per MPP tracker                       | A:1/B:1       | A:1/B:1                                                                 | A:2/B:1                                                               | A:2/B:1       |
| OUTPUT AC                                     |               |                                                                         |                                                                       |               |
| Nominal AC power [VA]                         | 5000          | 6000                                                                    | 8000                                                                  | 10000         |
| Max. apparent AC power [VA]                   | 5500          | 6600                                                                    | 8800                                                                  | 11000         |
| Rated grid voltage (AC voltage range) [V]     |               | 400V/230VAC;380V/220VAC,3L/N/PE                                         |                                                                       |               |
| Rated grid Frequency [Hz]                     |               | 50/60, ±5                                                               |                                                                       |               |
| Nominal AC current [A]                        | 7.2           | 8.7                                                                     | 11.6                                                                  | 14.5          |
| Max. AC current [A]                           | 8.3           | 10.0                                                                    | 13.3                                                                  | 15.9          |
| Displacement power factor                     |               | 1(Adjustable from 0.8 leading to 0.8 lagging)                           |                                                                       |               |
| Total harmonic distortion (THDi, rated power) |               | <3%                                                                     |                                                                       |               |
| Unbalance output                              |               | Yes                                                                     |                                                                       |               |
| Parallel operation                            |               | Yes                                                                     |                                                                       |               |
| INPUT AC                                      |               |                                                                         |                                                                       |               |
| Nominal AC power [VA]                         | 5000          | 6000                                                                    | 8000                                                                  | 10000         |
| Nominal AC current [A]                        | 7.2           | 8.7                                                                     | 11.6                                                                  | 14.5          |
| Max. AC current [A]                           | 8.3           | 10.0                                                                    | 13.3                                                                  | 16.7          |
| Rated grid voltage (AC voltage range) [V]     |               | 400V/230VAC;380V/220VAC,3L/N/PE                                         |                                                                       |               |
| Rated grid Frequency [Hz]                     |               | 50/60                                                                   |                                                                       |               |
| Power factor                                  |               | 1(Adjustable from 0.8 leading to 0.8 lagging)                           |                                                                       |               |
| BATTERY                                       |               |                                                                         |                                                                       |               |
| Battery capacity [kWh]                        |               |                                                                         | Up to 10.4                                                            |               |
| Battery voltage range [V]                     |               |                                                                         | 180-500                                                               |               |
| Max. charge/discharge power [W]               | 5000          | 6000                                                                    | 8000                                                                  | 10000         |
| Max. charge/discharge current [A]             |               |                                                                         | 26                                                                    |               |
| Communication interfaces                      |               |                                                                         | CAN/RS485                                                             |               |
| Reverse connect protection                    |               |                                                                         | YES                                                                   |               |
| EPS OUTPUT                                    |               |                                                                         |                                                                       |               |
| Nominal AC power [W]                          | 5000          | 6000                                                                    | 8000                                                                  | 10000         |
| Max. AC power (60s) [VA]                      | 16000         | 16000                                                                   | 16000                                                                 | 16000         |
| EPS rated voltage [V], Frequency [Hz]         |               | 400V/230VAC;380V/220VAC,3L/N/PE, 50/60                                  |                                                                       |               |
| EPS rated current (@230VAC) [A]               | 7.2           | 8.7                                                                     | 11.6                                                                  | 14.5          |
| Switch time [s]                               |               |                                                                         | <1.5                                                                  |               |
| Total harmonic distortion (THDv, linear Load) |               |                                                                         | <3%                                                                   |               |
| Parallel operation                            |               |                                                                         | 10                                                                    |               |
| EFFICIENCY                                    |               |                                                                         |                                                                       |               |
| MPPT efficiency                               |               |                                                                         | 99.90%                                                                |               |
| Euro-efficiency                               |               |                                                                         | 97.00%                                                                |               |
| Max. efficiency                               |               |                                                                         | 97.80%                                                                |               |
| Battery Charge Efficiency                     |               |                                                                         | 98.50%                                                                |               |
| Battery Discharge Efficiency                  |               |                                                                         | 97.00%                                                                |               |
| POWER CONSUMPTION                             |               |                                                                         |                                                                       |               |
| Internal consumption (night) [W]              |               |                                                                         | 15W standby mode                                                      |               |
| Idle mode                                     |               |                                                                         | YES                                                                   |               |
| STANDARD                                      |               |                                                                         |                                                                       |               |
| Safety                                        |               | IEC62109-1-2 / IEC62040 / IEC62619                                      |                                                                       |               |
| EMC                                           |               | EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3                              |                                                                       |               |
| Grid rules                                    |               | VDE-AR-N 4105:2018 / G98 / G99 / AS4777 / EN50549 / CEI 0-21 / VDE 2510 |                                                                       |               |
| ENVIRONMENT LIMIT                             |               |                                                                         |                                                                       |               |
| Protection class                              |               |                                                                         | IP65                                                                  |               |
| Operating temperature range [°C]              |               |                                                                         | -20..... +60°C (derating at +45°C)                                    |               |
| Humidity [%]                                  |               |                                                                         | 0~95 (non-condensing)                                                 |               |
| Altitude [m]                                  |               |                                                                         | <2000                                                                 |               |
| Storage temperature [°C]                      |               |                                                                         | -20..... +60°C                                                        |               |
| Noise emission (typical) [dB]                 |               |                                                                         | <40                                                                   |               |
| Over voltage category                         |               |                                                                         | III (electric supply side), II (PV side)                              |               |
| GENERAL                                       |               |                                                                         |                                                                       |               |
| Dimensions (HxWxD) [mm]                       |               |                                                                         | 1662*624*375                                                          |               |
| Weight [kg]                                   |               |                                                                         | 80                                                                    |               |
| Cooling concept                               |               |                                                                         | Natural                                                               |               |
| Topology                                      |               |                                                                         | Transformerless                                                       |               |
| Communication                                 |               |                                                                         | Ethernet, Meter, WiFi/GPRS/LAN (optional), DRM, USB, BMS (CAN), RS485 |               |