



# EVO 5

**ENERGY STORAGE SYSTEM**



## FULLY INTEGRATED STORAGE SYSTEM

Seamlessly integrated, truly all-in-one solution.



## LESS IS MORE

Sleek, minimalist design for effortless one-step installation.



## DOUBLE OFF-GRID BACKUP CAPABILITY

The system experienced a 200% overload for 10 seconds.



## 4MS

Support 4ms parallel off-grid switching.



IP66  
RATED



EPS  
FUNCTION



-20°C ~ 55°C



95%  
DOD



Advanced System Monitoring  
with **FoxCloud V2.0**

## EVO 5

A next-generation energy storage system solution with a fully-integrated inverter/charger and boasting a range of advanced features.

**5kW** ...>> **30kW**  
**5kWh** ...>> **15kWh**

Off-Grid



For more information about the Fox ESS range, visit:  
[www.fox-ess.com](http://www.fox-ess.com)

TECHNICAL SPECIFICATIONS

| MODEL                                                               |                                      | EVO 5-5-H | EVO 5-6-H                                                                                                                                                                          | EVO 5-7-H      | EVO 5-8-H                                     | EVO 5-9-H      | EVO 5-10-H     |
|---------------------------------------------------------------------|--------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------|----------------|----------------|
| PV INPUT (ONLY FOR HYBRID)                                          |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Max. PV Array Power [Wp]                                            |                                      | 16000     | 16000                                                                                                                                                                              | 20000          | 20000                                         | 20000          | 20000          |
| Max. Input Power [W]                                                |                                      | 10000     | 11000                                                                                                                                                                              | 12000          | 1300                                          | 14000          | 15000          |
| Max. MPPT Input Power [W]                                           |                                      | 8000/8000 | 8000/8000                                                                                                                                                                          | 8000/8000/8000 | 8000/8000/8000                                | 8000/8000/8000 | 8000/8000/8000 |
| Max. Input Voltage [V]                                              |                                      |           |                                                                                                                                                                                    |                | 600                                           |                |                |
| Start-up Input Voltage [V]                                          |                                      |           |                                                                                                                                                                                    |                | 80                                            |                |                |
| Rated Input Voltage [V]                                             |                                      |           |                                                                                                                                                                                    |                | 360                                           |                |                |
| MPPT Operating Voltage Range [V]                                    |                                      |           |                                                                                                                                                                                    |                | 80 ~ 550                                      |                |                |
| Max. Input Current [A]                                              |                                      | 20/20     | 20/20                                                                                                                                                                              | 20/20/20       | 20/20/20                                      | 20/20/20       | 20/20/20       |
| Max. Short-circuit Current [A]                                      |                                      | 25/25     | 25/25                                                                                                                                                                              | 25/25/25       | 25/25/25                                      | 25/25/25       | 25/25/25       |
| No. of MPP Trackers                                                 |                                      | 2         | 2                                                                                                                                                                                  | 3              | 3                                             | 3              | 3              |
| Strings per MPP Tracker                                             |                                      |           |                                                                                                                                                                                    |                | 1                                             |                |                |
| BATTERY CONNECTION                                                  |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Battery Type                                                        |                                      |           |                                                                                                                                                                                    |                | LFP (LiFePO <sub>4</sub> )                    |                |                |
| Battery Energy [kWh]                                                |                                      |           |                                                                                                                                                                                    |                | 5.12                                          |                |                |
| Depth of Discharge [%]                                              |                                      |           |                                                                                                                                                                                    |                | 95                                            |                |                |
| Cycle Life                                                          |                                      |           |                                                                                                                                                                                    |                | 6000                                          |                |                |
| AC INPUT AND OUTPUT (GRID)                                          |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Output                                                              | Rated Power [W]                      | 5000      | 6000                                                                                                                                                                               | 7000           | 8000                                          | 9000           | 10000          |
|                                                                     | Rated Apparent Power [VA]            | 5000      | 6000                                                                                                                                                                               | 7000           | 8000                                          | 9000           | 10000          |
|                                                                     | Max. Apparent Power [VA]             | 5500      | 6600                                                                                                                                                                               | 7700           | 8800                                          | 9900           | 11000          |
|                                                                     | Rated Output Current (Per Phase) [A] | 22.7      | 27.3                                                                                                                                                                               | 31.8           | 36.4                                          | 40.9           | 45.5           |
|                                                                     | Max. AC Current (Per Phase) [A]      | 25.0      | 30.0                                                                                                                                                                               | 35.0           | 40.0                                          | 45.0           | 50.0           |
|                                                                     | THDi [%]                             |           |                                                                                                                                                                                    |                | <3 @rated power                               |                |                |
| Input                                                               | Max. Apparent Power [VA]             | 6000      | 7200                                                                                                                                                                               | 8400           | 9600                                          | 10800          | 12000          |
|                                                                     | Max. Input Current [A] (Per Phase)   | 27.3      | 32.7                                                                                                                                                                               | 38.2           | 43.6                                          | 49.1           | 54.5           |
| Output & Input                                                      | Nominal Voltage [V]                  |           |                                                                                                                                                                                    |                | 220/230/240, L/N/PE                           |                |                |
|                                                                     | Nominal Frequency [Hz]               |           |                                                                                                                                                                                    |                | 50/60, ±5                                     |                |                |
|                                                                     | Power Factor                         |           |                                                                                                                                                                                    |                | 1(Adjustable from 0.8 leading to 0.8 lagging) |                |                |
|                                                                     | Inrush Current [A]                   |           |                                                                                                                                                                                    |                | 15 @0.5ms                                     |                |                |
| EPS OUTPUT                                                          |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Max. Apparent Power [VA]                                            |                                      | 5000      | 6000                                                                                                                                                                               | 7000           | 8000                                          | 9000           | 10000          |
| Peak Apparent Power [VA]                                            |                                      | 6000@60s  | 7200@60s                                                                                                                                                                           | 8400@60s       | 9600@60s                                      | 10800@60s      | 12000@60s      |
|                                                                     |                                      | 7500@30s  | 9000@30s                                                                                                                                                                           | 10500@30s      | 12000@30s                                     | 13500@30s      | 15000@30s      |
|                                                                     |                                      | 10000@10s | 12000@10s                                                                                                                                                                          | 14000@10s      | 16000@10s                                     | 18000@10s      | 20000@10s      |
| Nominal Voltage [V]                                                 |                                      |           |                                                                                                                                                                                    |                | 220/230/240                                   |                |                |
| Nominal Frequency [Hz]                                              |                                      |           |                                                                                                                                                                                    |                | 50/60                                         |                |                |
| Max. Output Current (Per Phase) [A]                                 |                                      | 22.7@220V | 27.3@220V                                                                                                                                                                          | 31.8@220V      | 36.4@220V                                     | 40.9@220V      | 45.5@220V      |
| Power Factor                                                        |                                      |           |                                                                                                                                                                                    |                | 1 (Adjustable)                                |                |                |
| Switch Time [ms]                                                    |                                      |           |                                                                                                                                                                                    |                | <4                                            |                |                |
| THDV [%]                                                            |                                      |           |                                                                                                                                                                                    |                | <3 @Linear Load                               |                |                |
| Parallel Operation                                                  |                                      |           |                                                                                                                                                                                    |                | Yes @max 3PCS                                 |                |                |
| EFFICIENCY                                                          |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Max. Conversion Efficiency [%]                                      |                                      |           |                                                                                                                                                                                    |                | 97.62                                         |                |                |
| European Efficiency [%]                                             |                                      |           |                                                                                                                                                                                    |                | 97.20                                         |                |                |
| Max. Battery Charge Efficiency (PV To BAT) @full Load [%]           |                                      |           |                                                                                                                                                                                    |                | 95.40                                         |                |                |
| Max. Battery Charge/discharge Efficiency (BAT To AC) @full Load [%] |                                      |           |                                                                                                                                                                                    |                | 94.50                                         |                |                |
| 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                                           |                |                |
| Overvoltage Category                                                |                                      |           |                                                                                                                                                                                    |                | DC: Type II /AC: Type II                      |                |                |
| AFCI Protection                                                     |                                      |           |                                                                                                                                                                                    |                | YES                                           |                |                |
| GENERAL DATA                                                        |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Dimensions (W*H*D) [mm]                                             |                                      |           |                                                                                                                                                                                    |                | 584*1009*197                                  |                |                |
| Weight [kg]                                                         |                                      |           |                                                                                                                                                                                    |                | 80                                            |                |                |
| Installation                                                        |                                      |           |                                                                                                                                                                                    |                | Floor-mounted/Wall-mounted                    |                |                |
| Cooling Method                                                      |                                      |           |                                                                                                                                                                                    |                | Intelligent air cooling                       |                |                |
| Noise Emission [dB]                                                 |                                      |           |                                                                                                                                                                                    |                | <45, Average                                  |                |                |
| Max. Operating Altitude [m]                                         |                                      |           |                                                                                                                                                                                    |                | <4000 @Derating exceeding 2000m               |                |                |
| Operating Temperature Range [°C]                                    |                                      |           |                                                                                                                                                                                    |                | -20 ~ 55                                      |                |                |
| Humidity (No Condensation) [%]                                      |                                      |           |                                                                                                                                                                                    |                | 0 ~ 100                                       |                |                |
| Ingress Protection                                                  |                                      |           |                                                                                                                                                                                    |                | IP66                                          |                |                |
| Standby Consumption [W]                                             |                                      |           |                                                                                                                                                                                    |                | < 20                                          |                |                |
| Monitoring Module                                                   |                                      |           |                                                                                                                                                                                    |                | WiFi, LAN, 4G                                 |                |                |
| Communication Interface                                             |                                      |           | Ethernet, EMS(RS 485), Meter, WiLAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready                                                                |                |                                               |                |                |
| Display                                                             |                                      |           |                                                                                                                                                                                    |                | LED, LCD, APP, Website                        |                |                |
| Supports Dual EPS Expansion                                         |                                      |           |                                                                                                                                                                                    |                | YES                                           |                |                |
| STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)                   |                                      |           |                                                                                                                                                                                    |                |                                               |                |                |
| Safety                                                              |                                      |           | EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC62477-1,EN/IEC 62040(AU)                                                                                                                     |                |                                               |                |                |
| EMC                                                                 |                                      |           | EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, IEC 62920:2017                                                                         |                |                                               |                |                |
| RED                                                                 |                                      |           | EN 50665:2017, ENIEC 62311:2020, EN 301 489-1 V2.2.3 (2019-11), EN 301 489-17 V3.2.4 (2020-09), EN 300 328 V2.2.2(2019-07), EN 55032:2015+A11:2020+A1:2020, EN 55035:2017+A11:2020 |                |                                               |                |                |
| Grid Regulation                                                     |                                      |           | G99, CEI 0-21, AS/NZS 4777.2:2020, NRS 097-2-1, IEC 61727, EN 50549-1, P140/P515                                                                                                   |                |                                               |                |                |
| Battery Regulation                                                  |                                      |           | IEC62619:2022                                                                                                                                                                      |                |                                               |                |                |
| Transportation                                                      |                                      |           | UN 38.3                                                                                                                                                                            |                |                                               |                |                |
| Environment                                                         |                                      |           | ROHS, REACH, WEEE                                                                                                                                                                  |                |                                               |                |                |