



EVO Series

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 SERIES

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

5kW ...>>> 30kW
10kWh ...>>> 30kWh

Off-Grid



For more information about the Fox ESS range, visit:
www.fox-ess.com

TECHNICAL SPECIFICATIONS

| MODEL | | EVO10-5H | EVO10-6H | EVO10-7H | EVO10-8H | EVO10-9H | EVO10-10H |
|---|--------------------------------------|--|------------|------------|------------|------------|------------|
| PV INPUT (ONLY FOR HYBRID) | | | | | | | |
| Max. Input Power [W] | | 15000 | 16000 | 17000 | 18000 | 19000 | 20000 |
| | | PV1/PV2/PV3 8000/8000/8000 | | | | | |
| Max. Input Voltage [V] | | 600 | | | | | |
| Start-up Input Voltage [V] | | 75 | | | | | |
| Rated Input Voltage [V] | | 360 | | | | | |
| MPPT Operating Voltage Range [V] | | 80 ~ 550 | | | | | |
| Max. Input Current [A] | | 20/20/20 | | | | | |
| Max. Short-circuit Current [A] | | 25/25/25 | | | | | |
| No. of Independent MPP Trackers | | 3 | | | | | |
| No. of Strings per MPP Tracker | | 1 | | | | | |
| BATTERY CONNECTION | | | | | | | |
| Battery Type | | Lithium battery (LFP) | | | | | |
| Battery Energy [kWh] | | 10.24 | | | | | |
| 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 |
| Input | THDI | <3%@rated power | | | | | |
| | Max. Apparent Power [VA] | 6000 | 7200 | 8400 | 9600 | 10800 | 12000 |
| Output & Input | Max. Input Current [A] (Per Phase) | 27.3 | 32.7 | 38.2 | 43.6 | 49.1 | 54.5 |
| | 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] | | 15A@0.5ms | | | | | |
| EPS OUTPUT | | | | | | | |
| Max. Apparent Power [VA] | | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 |
| Peak Apparent Power [VA] | | 6000@60s | 7200W@60s | 8400W@60s | 9600W@60s | 10800W@60s | 12000W@60s |
| | | 7500@30s | 9000W@30s | 10500W@30s | 12000W@30s | 13500W@30s | 15000W@30s |
| | | 10000@10s | 12000W@10s | 14000W@10s | 16000W@10s | 18000W@10s | 20000W@10s |
| Nominal Voltage [V] | | 220/230/240 | | | | | |
| Nominal Frequency [Hz] | | 50/60 | | | | | |
| Max. Output Current (Per Phase) [A] | | 22.7@230V | 27.3@230V | 31.8@230V | 36.4@230V | 40.9@230V | 45.5@230V |
| Power Factor | | 1(Adjustable) | | | | | |
| Switch Time [ms] | | <4 | | | | | |
| THDV [%] | | <3@Linear Load | | | | | |
| Parallel Operation | | Yes @max 3PCS | | | | | |
| EFFICIENCY | | | | | | | |
| Max. Conversion Efficiency [%] | | 97.6 | | | | | |
| European Efficiency [%] | | 97.2 | | | | | |
| Max. Battery Charge Efficiency (PV To BAT) (@full Load) [%] | | 97.3 | | | | | |
| Max. Battery Charge/discharge Efficiency (BAT To AC)(@full Load)[%] | | 96.4 | | | | | |
| 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 | | | | | |
| Over Voltage Category | | DC: Type II /AC: Type II | | | | | |
| AFCI Protection | | YES | | | | | |
| GENERAL DATA | | | | | | | |
| Dimensions (W*H*D) [mm] | | 584*1009*197 | | | | | |
| Weight [kg] | | 113 | | | | | |
| Installation | | Floor-mounted/Wall-mounted | | | | | |
| Cooling Method | | Intelligent air cooling | | | | | |
| Noise Emission [dB] | | <45dB Average | | | | | |
| Max. Operating Altitude [m] | | <4000@Derating exceeding 2000m | | | | | |
| Operating Temperature Range [°C] | | -20 ~ 55 | | | | | |
| Humidity (No Condensation) [%] | | 0 ~ 100 | | | | | |
| Protection Degree | | 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 | | | | | |
| Support 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 | | G98, 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 | | | | | |