



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 ...>>> 15kW

5kWh ...>>> 15kWh

Off-Grid



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

TECHNICAL SPECIFICATIONS

MODEL	EVO 5-3.7-H	EVO 5-5-H	EVO 5-8-H	EVO 5-10-H	
PV INPUT (ONLY FOR HYBRID)					
Max. PV Array Power [Wp]	16000	16000	20000	20000	
Max. Input Power [W]	8700	10000	1300	15000	
Max. MPPT Input Power [W]	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	
Max. Short-circuit Current [A]	25/25	25/25	25/25/25	25/25/25	
No. of MPP Trackers	2	2	3	3	
Strings per MPP Tracker			1		
BATTERY CONNECTION					
Battery Type			LFP (LiFePO ₄)		
Battery Energy [kWh]			5.12		
Depth of Discharge [%]			95		
Max. battery charge power [W]			10000		
Cycle Life			6000		
AC INPUT AND OUTPUT (GRID)					
Output	Rated Power [W]	3680	5000	8000	10000
	Rated Apparent Power [VA]	3680	5000	8000	10000
	Max. Apparent Power [VA]	3680	5500	8800	11000
	Rated Output Current (Per Phase) [A]	16.7	22.7	36.4	45.5
	Max. AC Current (Per Phase) [A]	16.7	25.0	40.0	50.0
Input	THDi [%]			<3 @rated power	
	Max. Apparent Power [VA]	4400	6000	9600	12000
Output & Input	Max. Input Current [A] (Per Phase)	20.0	27.3	43.6	54.5
	Nominal Voltage [V]			220/230/240, L/N/PE	
	Nominal Frequency [Hz]			50/60, ±5	
Input	Power Factor			1(Adjustable from 0.8 leading to 0.8 lagging)	
	Inrush Current [A]			15 @0.5ms	
EPS OUTPUT					
Max. Apparent Power [VA]	3680	5000	8000	10000	
Peak Apparent Power [VA]	4440@60s	6000@60s	9600@60s	12000@60s	
	5550@30s	7500@30s	12000@30s	15000@30s	
	7400@10s	10000@10s	16000@10s	20000@10s	
Nominal Voltage [V]			220/230/240		
Nominal Frequency [Hz]			50/60		
Max. Output Current (Per Phase) [A]	16.7@220V	22.7@220V	36.4@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 [%]	97.60	97.62	97.62	97.62	
European Efficiency [%]	97.16	97.20	97.20	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		
Communication Interface			Ethernet, EMS(RS 485), Meter, WiLAN(WiFi+LAN+Bluetooth), 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(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		