



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
	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]	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					