FOX ESS

DATASHEET

EVO 10

ENERGY STORAGE SYSTEM

A next-generation all-in-one energy storage solution with a fully integrated inverter and battery, offering a range of advanced features.



5kW ⋯» 30kW

10kWh ⋯» 120kWh

Off-Grid



Advanced System Monitoring
with FoxCloud 2.0

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.

DC EXPANSION AND AC PARALLEL OPERATION AVAILABLE

Support 3 ET10 battery expansion units and 3 AC parallel units.

4MS

Support 4ms parallel off-grid switching.

IP66 RATED

EPS FUNCTION

-20°C ~ 55°C

95% DOD

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TECHNICAL SPECIFICATIONS

MODEL		EVO 10E-5-H	EVO 10E-6-H	EVO 10E-8-H	EVO 10E-10-H
PV INPUT (ONLY FOR HYBRID)					
Max. PV Array Power [Wp]		16000	16000	20000	20000
Max. Input Power [W]		15000	16000	18000	20000
Max. MPPT Input Power [W]		8000/8000	8000/8000	8000/8000/8000	8000/8000/8000
Max. Input Voltage [V]		600 [1]			
Start-up Input Voltage [V]		80			
Nominal 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+1	1+1	1+1+1	1+1+1
BATTERY CONNECTION					
Battery Type		LFP ($LiFePO_4$)			
Battery Energy [kWh]		10.24			
Max. Charge Power [W]		10000			
Depth of Discharge [%]		95			
DC Expansion		Yes, max. 3*ET10 batteries			
AC INPUT AND OUTPUT (GRID)					
Output	Rated Power [W]	5000	6000	8000	10000
	Rated Apparent Power [VA]	5000	6000	8000	10000
	Max. Apparent Power [VA]	5500	6600	8800	11000
	Rated Output Current (per phase) [A]	22.7/21.7/20.8	27.3/26.1/25.0	36.4/34.8/33.3	45.5/43.5/41.7
	Max. AC Current (per phase) [A]	25.0/23.9/22.9	30.0/28.7/27.5	40.0/38.3/36.7	50.0/47.8/45.8
	THDi [%]	<3 @rated power			
Input	Max. Apparent Power [VA]	8800	11000	14500 [2]	14500 [2]
	Max. Input Current [A] (per phase)	40.0	50.0	63.0 [2]	63.0 [2]
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]	3.2 @ 1ms			
EPS OUTPUT					
Max. Apparent Power [VA]		5000	6000	8000	10000
Load Start Capability [A]		100 @2s			
Nominal Voltage [V]		220/230/240			
Nominal Frequency [Hz]		50/60, ±5			
Max. Output Current (per phase) [A]		22.7/21.7/20.8	27.3/26.1/25.0	36.4/34.8/33.3	45.5/43.5/41.7
Power Factor		1 (Adjustable from 0.8 leading to 0.8 lagging)			
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 [%]		97.33			
Max. Battery Charge/Discharge Efficiency (BAT To AC) @full Load [%]		96.40			
PROTECTION					
PV Reverse Polarity Protection		YES			
Anti-Islanding Protection		YES			
Output Short Protection		YES			
Leakage Current Protection		YES			
Insulation Resistance Detection		YES			
Overcurrent Protection		YES			
Overtemperature Protection		YES			
Earth Fault		YES			
DC/AC Surge Protection		DC: Type II /AC: Type II			
AFCI Protection		YES			
DC Switch		YES			
GENERAL DATA					
Dimensions (W*H*D) [mm]		584*1009*197			
Weight [kg]		108			
Installation		Floor-mounted/Wall-mounted			
Cooling Method		Intelligent air cooling			
Operating Temperature (Limited Performance without Warm Up)		-20 ~ 55			
Operating Temperature (Full Performance with Warm Up)		-25 ~ 55			
Storage Temperature [°C]		0 ~ 35			
Humidity (No Condensation) [%]		0 ~ 100			
Altitude [m]		<4000@Derating exceeding 2000			
Ingress Protection		IP66 (For Outdoor Use)			
Standby Consumption [W]		<20			
Noise Emission [dB]		<45, Average [3]			
Inverter Topology		Non-Isolated			
Communication Interface		Ethernet, EMS, Meter, WiLAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, SG Ready, Dry Contactor			
Display		LED, LCD, APP, Website			
Export Limit Control		YES			
Button		Capacitive Touch Sensor * 1			
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			

[1] Voltages above 600V may damage the inverter.
[2] Can be configured via the app or web portal.
[3] Noise data are measured in decibels with the decorative cover installed.