AVOCADO

EPS FUNCTION

EXPAND CAPACITY

90% DOD

DATASHEET

Orbit

All-in-One residential micro storage system, plug and play, highly flexible and extendable.

0.8kW

Advanced System Monitoring
with FoxCloud V2.0

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

Orbit

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.

EASY INSTALLATION
Flexible configuration, plug and play set-up, built-in fuse protection.

IP65 RATED
High level of protection, suitable for outdoor installation.

TECHNICAL SPECIFICATIONS

MODEL	Orbit-M	Orbit-S
AC INPUT		
Nominal Voltage [V]	220/230/240	/
Nominal Frequency [Hz]	50/60	/
Max. Input Current [A]	5.4	/
Max. Apparent Power [VA]	1200	/
AC OUTPUT		
Rated Power [W]	800	/
Max. Apparent Power [VA]	800	/
Nominal Voltage [V]	220/230/240	/
Nominal Frequency [Hz]	50/60	/
Rated Output Current [A]	3.6/3.5/3.3	/
Power Factor	0.8 leading to 0.8 lagging	/
EPS OUTPUT		
Nominal Voltage [V]	220/230/240	/
Max. Output Current [A]	5.4	/
Nominal Frequency [Hz]	50/60	/
Max. Apparent Power [VA]	1200	/
PV INPUT (ONLY FOR HYBRID)		
Max. Input Power [W]	2600	/
Absolute Max. Voltage [V]	60	/
MPPT Voltage Range [V]	10~60	/
Max. Input Current [A]	20	/
Max. Short Circuit Current [A]	25	/
No. of MPP Trackers	4	/
Strings per MPP Tracker	1	/
BATTERY TECHNICAL SPECIFICATION		
Battery Type	$LiFePO_4$	
Battery Nominal Voltage [V]	35.2	
Battery Nominal Energy [kWh]	2.11	
Battery Operating Voltage [V]	31.9 ~ 40.15	
Battery Cycle Life	>6000 (80%SOH, @25°C±2°C, 0.5C/0.5C, 90%DOD)	
Expandable Number of Batteries	1	4
PROTECTION		
Battery Fire Protection Function	Optional	
Battery Warming Function	Optional	
Smart Meter	Optional	/
GENERAL DATA		
Dimensions (W*H*D) [mm]	420*285*255	420*270*220
Weight Approximate [kg]	26.5	24
Ingress Protection	IP65	
Operating Temperature Range [°C]	-20 ~ 55	
Max. Operating Altitude [m]	2000	
Relative Humidity [%]	15 ~ 85 (No Condensing)	
Installation Style	Floor-mounted	
Display	APP & OLED & Battery LED (SOC, Alarm) APP & OLED & Battery LED (SOC, Alarm)	/
Communication Interfaces	Wi-Fi, Bluetooth, LAN, RS485 Wi-Fi, Bluetooth, LAN, RS485	/
STANDARD COMPLIANCE		
Safety EMC/Standard	IEC62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN61000-6-3, IEC/EN 61000-6-4	
Grid Regulation	EN50549, VDE4105, C10/11	
Battery Certification	UN38.3, IEC 62619	

**2kWh
LFP Battery**

**800W On-grid and
Off-grid Operation**