



2.11 KWH
LFP BATTERY



800W ON-GRID AND
OFF-GRID OPERATION



EPS
FUNCTION



EXPAND
CAPACITY



90%
DOD



Powered by Fox ESS
DATASHEET

Avocado 22 Pro

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

Emergency power (Notstrom) up to 1.2 kW + simultaneous charging up to 3.8 kW with Fox ESS microinverter (with extension batteries)



Advanced System Monitoring
with FoxCloud V2.0



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



Avocado 22 Pro

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	Avocado 22 Pro-M	Avocado 22 Pro-AC	Avocado 22 Pro-E
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]	19±1	/	/
Max. Short Circuit Current [A]	25±1	/	/
No. of MPP Trackers	4	/	/
Strings per MPP Tracker	1	/	/
AC INPUT			
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Input Current [A]	10	10	/
Max. AC Input Power [W]	2200	2200	/
Max. Apparent Power [VA]	2200	2200	/
Max. Charging Power [W]	1200	1200	/
Max. Charging Current [A]	5.4	5.4	/
AC OUTPUT			
Rated Power [W] ^[1]	800 (1200)	800 (1200)	/
Max. Apparent Power [VA]	800 (1200)	800 (1200)	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Rated Output Current [A]	3.4/3.5/3.6	3.4/3.5/3.6	/
Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	/
EPS OUTPUT			
Nominal Voltage [V]	220/230/240	220/230/240	/
Max. Output Current [A]	5.4	5.4	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Output Power [W]	1200	1200	/
Max. Apparent Power [VA]	1200	1200	/
Max. AC Bypass Output Power [W]	2200	2200	/
Max. AC Bypass Output Current [A]	10	10	/
BATTERY TECHNICAL SPECIFICATION			
Battery Type	LiFePO ₄		
Battery Nominal Voltage [V]	35.2		
Battery Nominal Energy [kWh]	2.11		
Max. Stackable Energy [kWh]	10.55		
Battery Operating Voltage [V]	31.9 ~ 40.15		
Battery Cycle Life ^[2]	8000		
PROTECTION			
Battery Fire Protection Function	Yes		
Battery Warming Function	Yes (Cell level and pack level)		
Automatic Load Protection Balcony storage ^[3]	Yes		
Overvoltage Protection	Yes		
Undervoltage Protection	Yes		
Overcurrent Protection	Yes		
Short-circuit Protection	Yes		
Overheating Protection	Yes		
Overcharge/Overdischarge Protection	Yes		
Surge Protection	Yes		
PV Reverse Polarity Protection	Yes		
Anti-Islanding Protection	Yes		
Software compatibility with third-party platforms	Consolinno, EcoTracker, Shelly, IO meter, and Home assistant		
Smart Meter	Optional	Optional	/
GENERAL DATA			
Dimensions (W*H*D) [mm]	420*285*255	420*285*255	420*270*220
Weight Approximate [kg]	26.5	25.5	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	/
Warranty [year]	10		
STANDARD COMPLIANCE			
Safety EMC/Standard	IEC 62040, IEC 63056, 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, IEC62477-1		
Grid Regulation	EN50549, VDE4105, C10/11, TOR A		
Battery Certification	UN38.3, IEC 62619		

[1] Registration required.
[2] 70% SOH, @25°C ± 2°C, 0.5C/0.5C, when use at charge level 20 - 80%.
[3] Only with supported smart meters.