FALCON
ESS

SIGNATURE GREY SERIES

CLEAN ENERGY
A BRIGHTER TOMORROW

DATASHEET

EPS FUNCTION | EXPAND CAPACITY | 90% DOD



S22

ENERGY STORAGE SYSTEM

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

0.8kW

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.



Advanced System Monitoring
with **FalconCloud 2.0**

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POWERING A CLEANER TOMORROW

TECHNICAL SPECIFICATIONS

MODEL	S22-M-H	S22-M-AC	S22-S
AC INPUT			
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Input Current [A]	5.4	5.4	/
Max. Apparent Power [VA]	1200	1200	/
AC OUTPUT			
Rated Power [W]	800	800	/
Max. Apparent Power [VA]	800	800	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Rated Output Current [A]	3.6/3.5/3.3	3.6/3.5/3.3	/
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. Apparent Power [VA]	1200	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 ~ 40.1	
Expandable Number of Batteries	1	1	4
PROTECTION			
Battery Fire Protection Function		Yes	
Battery Warming Function		Optional	
Smart Meter	Optional	Optional	/
GENERAL DATA			
Dimensions (W*H*D) [mm]	420*255*285	420*255*285	420*270*220
Weight Approximate [kg]	26.5	25.5	23
Ingress Protection		IP65	
Operating Temperature Range [°C]		-20 ~ 55	
Max. Operating Altitude [m]		2000	
Relative Humidity [%]		15 ~ 85 (No Condensing)	
Installation Location		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	