FALCON
ESS

SIGNATURE GREY SERIES

CLEAN ENERGY
A BRIGHTER TOMORROW

EPS FUNCTION

EXPAND CAPACITY

90% DOD

POWER
A CLEANER
TOMORROW

DATASHEET

S28

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

0.8 / 2.4kW

POWER RANGE



Advanced System Monitoring with **FalconCloud 2.0**

www.falcon-ess.com

S28

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.

CLEAN ENERGY
A BRIGHTER TOMORROW

TECHNICAL SPECIFICATIONS

MODEL	S28-0.8-M	S28-2.4-M	S28-S
AC INPUT			
Max. Apparent Power [VA]	2400	2400	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Current [A]	10.9	10.9	/
AC OUTPUT			
Rated Power [W]	800	2400	/
Max. Apparent Power [VA]	800	2400	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Rated Current [A]	3.6/3.5/3.3	10.9/10.4/10.0	/
Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	/
EPS OUTPUT			
Max. Apparent Power [VA]	2400	2400	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Current [A]	10.9	10.9	/
PV INPUT (ONLY FOR HYBRID)			
Max. Power [W]	4000	4000	/
Absolute Max. Voltage [V]	60	60	/
MPPT Voltage Range [V]	10 ~ 60	10 ~ 60	/
Max. Current [A]	30	30	/
Max. Short Circuit Current [A]	40	40	/
No. of MPP Trackers	4	4	/
Strings per MPP Tracker	1	1	/
BATTERY TECHNICAL SPECIFICATION			
Battery Type		$LiFePO_4$	
Battery Nominal Energy [kWh]		2.64	
Battery Nominal Voltage [V]		35.2	
Battery Operating Voltage [V]		31.9 ~ 40.1	
Max. Charge/Discharge Current [A]*1	75	75	60
Expandable Number of Batteries	1	1	4
PROTECTION			
Battery Fire Protection Function		Yes	
Smart Meter	Optional	Optional	/
GENERAL DATA			
Dimensions (W*H*D) [mm]	420*255*310	420*255*310	420*270*235
Weight Approximate [kg]	28	28	23.4
Ingress Protection		IP65	
Operating Temperature [°C]		-20 ~ 55	
Relative Humidity [%]		15 ~ 85 (No Condensing)	
Max. Operating Altitude [m]		2000	
Installation Location		Floor-mounted	
Display	APP & LCD & Battery LED	APP & LCD & Battery LED	Battery LED
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, CEI 0-21, G98	EN50549, VDE4105, C10/11, CEI 0-21, G98	/
Battery Certification		UN38.3, IEC 62619	

*1, The current is affected by temperature and SOC.