

PowerAll

3 / 3.68 / 4 / 4.6 / 5 / 6kW
5 / 10 / 15 / 20 / 25 / 30 kWh

Single-phase all-in-one ESS



► SOFAR Hybrid inverter

► SOFAR Battery



User-friendly

- One-button battery operation
- Easy installation & extendable capacity
- Extendable by mixing new and existing batteries



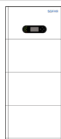
Flexible applications

- Multi-function EMS integrated
- Seamless switchover between on and off-grid (10ms)



Safe & Reliable

- IP65 rated design
- Physically & electrically isolated battery, safer system

Model						
System Parameters						
System Schematic						
Inverter Module	ESI 3/3.68 /4/4.6/5/6K-S1					
Number of Inverter Modules	1					
Battery Module	BTS 5K					
Number of Battery Modules	1	2	3	4	5	6
Battery Total Energy ^[1]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh
IP Rating	IP65					
Operating Temperature ^[2]	Charge: 0°C ~ +50°C / Discharge: -10°C ~ +50°C					
Allowable Relative Humidity Range	5-95%					
Max. Operating Altitude ^[3]	4000m					
Weight	74.5kg	125.5kg	176.5kg	228.5kg	279.5kg	330.5kg
Dimension (W×H×D) ^[4]	708×830×170 mm	708×1250×170 mm	708×1670×170 mm	708×1250×170 mm 708×840×170 mm	708×1250×170 mm 708×1260×170 mm	708×1670×170 mm 708×1260×170 mm
Base Dimension (W×H×D)	620×60×170 mm (floor installation), 620×310×170 mm (wall-mounted installation)					
Display	LCD & APP					
Communication	RS485/CAN/Wi-Fi, Optional: Ethernet/4G					
Product Ordering Model	[ESI 3/3.68 /4/4.6/5/6K-S1 Inverter Module] + N * [BTS 5K Battery Module]					
Inverter Module	ESI 3K-S1	ESI 3.68K-S1	ESI 4K-S1	ESI 4.6K-S1	ESI 5K-S1	ESI 6K-S1
PV Input						
Recommended Max. PV Power	6000 Wp	7360 Wp	8000 Wp	9200 Wp	10000 Wp	12000 Wp
Max. Input Voltage	550 Vd.c.					
Start-up Voltage	100 Vd.c.					
Rated Input Voltage	360 Vd.c.					
MPPT Voltage Range	85-520 Vd.c.					
Number of MPPT	2					
Max. Input Current	16/16 A					
Max. Isc	22.5/22.5 A					
Battery						
Rated Voltage Range	350-435 Vd.c.					
Max. Charging/Discharging Current	20A					
AC Backup						
Rated Output Voltage	L+N+PE, 220/230/240 Va.c.					
Rated Output Frequency	50/60Hz					
Rated Output Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	6 kW
Max. Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Peak Output Apparent Power	4500 VA, 60s	5520 VA, 60s	6000 VA, 60s	6900 VA, 60s	7500 VA, 60s	9000 VA, 60s
Switching Time	10ms default					
AC Grid						
Rated Voltage	L+N+PE, 220/230/240 Va.c.					
Rated Frequency	50/60Hz					
Rated Output Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. Apparent Power	3.3 kVA	3.68 kVA	4.4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Max. Output Current	15.0/14.3/13.8 A	16.7/16.0/15.3 A	20.0/19.1/18.3 A	20.9/20.0/19.2 A	25.0/23.9/22.9 A	30.0/28.7/27.5 A
Max. Input Current	27.3/26.1/25.0 A	33.5/32.0/30.7 A	36.4/34.8/33.3 A	41.8/40.0/38.3 A	45.5/43.5/41.7 A	54.5/52.2/50.0 A
Power Factor Range	0.8 lagging - 0.8 leading					
General Parameter						
Dimensions (W×H×D)/Weight	708×410×170mm/26kg					
Battery Module						
Battery Type	LiFePO ₄ - lithium iron phosphate battery					
Battery Module Energy	5.12 kWh					
Rated Power	2.5 kW					
Topology	Isolation					
Dimensions (W×H×D)/Weight	708×420×170mm/50kg					

[1] Test conditions: 0.2C charging/discharging at 25°C, 100%DOD. [2] Please refer to the temperature derating curve. [3] If the altitude is >2000 m, derating is required. Please refer to the derating curve. [4] Dimensions of the inverter and batteries.

*All specifications are subject to change without notice.