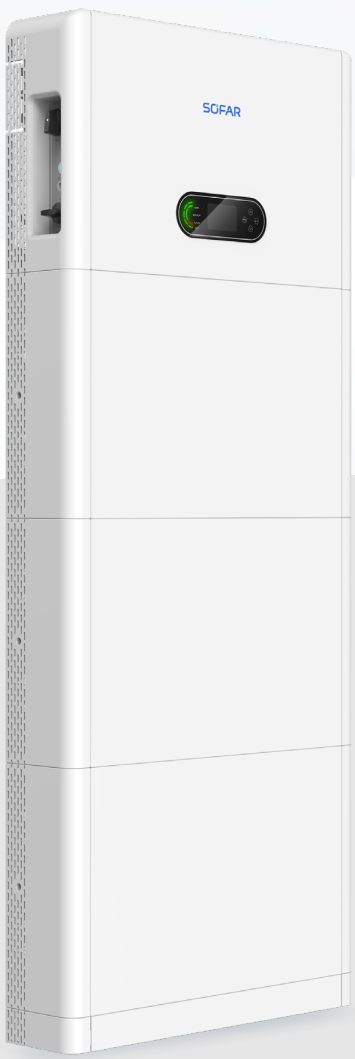
PowerAll

5 / 6.5 / 8 / 9.9 / 10 / 12 kW
5 / 10 / 15 / 20 / 25 / 30 kWh

Three-phase All-in-one ESS



- SOFAR Hybrid inverter
- SOFAR Battery

We've GOT YOU COVERED with CGL insurance.

User-friendly

- Easy installation, support both all-in-one and split installations
- Natural heat dissipation, no extra noise

Flexible applications

- Support 100% three-phase unbalanced loads
- Seamless switchover between on and off-grid (10ms)

Safe and reliable

- Up to 3MPPT with AFCI
- IP66 rated design

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System Parameters						
System Schematic						
Inverter Module	ESI-5/6.5/8/9.9/10/12K-T1					
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 Range [2]	Charge: -10℃ to +50℃ / Discharge: -20℃ to +50℃					
Relative Humidity Range	5%-95%					
Max. Operating Altitude [3]	4000 m					
Weight	80 kg	130 kg	180 kg	230 kg	280 kg	330 kg
Dimension (W*H*D) [4]	708*920*170 mm	708*1340*170 mm	708*1760*170 mm	708*1340*170 mm 708*940*170 mm	708*1340*170 mm 708*1360*170 mm	708*1760*170 mm 708*1360*170 mm
Base Dimensions (W*H*D)	620*60*170 mm (floor installation), 620*310*170 mm (wall-mounted installation)					
Display	LCD & APP					
Communication	CAN/RS485/WiFi, Optional:4G/LAN					
Product Ordering Model	[ESI-5/6.5/8/9.9/10/12K-T1 Inverter Module] + N * [BTS 5K Battery Module]					
Inverter Module	**ESI-5K-T1**	**ESI-6.5K-T1**	**ESI-8K-T1**	**ESI-9.9K-T1-A**	**ESI-10K-T1**	**ESI-12K-T1**
PV Input						
Recommended Max. PV Power	10kWp	13kWp	16kWp	20kWp	20kWp	24kWp
Max. Input Voltage	1000 Vd.c.					
Start-up Voltage [5]	200 Vd.c.					
Rated Input Voltage	600 Vd.c.					
MPP Voltage Range	160-950 Vd.c.					
Number of MPPT	3					
Max. Input Current	20/20/20 A					
Max. Isc	25/25/25 A					
Battery						
Voltage Range	350-435 Vd.c.					
Max. Charging Current	25A					
Max. Discharging Current	15A	19.5A	24A	29.7A	30A	30A
AC Backup						
Rated Output Voltage	3N~+PE, 380/400/415 Va.c.					
Rated Output Frequency	50 / 60 Hz					
Rated Output Power	5 kW	6.5 kW	8 kW	9.9 kW	10 kW	12 kW
Max. Apparent Power	5.5 kVA	7.15 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA
Peak Output Apparent Power [6]	2 times of rated power, 10s					
Switching Time	10 ms default					
AC Grid						
Rated Voltage	3(N)~+PE, 380/400/415 Va.c.					
Rated Frequency	50 / 60 Hz					
Rated Output Power	6.5 kW	6.5 kW	8 kW	9.9 kW	10 kW	12 kW
Max. Apparent Power	7.15 kVA	7.15 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA
Max. Output Current	8.3/8.0/7.6 A	10.9/10.3/9.9 A	13.3/12.8/12.2 A	15.0/14.3/13.8 A	16.7/15.9/15.3 A	20.0/19.1/18.3A
Max. Input Current	15.2/14.5/13.9 A	19.8/18.8/18.1 A	24.2/23.2/22.2 A	30.3/29.0/27.8 A	30.3/29.0/27.8 A	33.3/31.9/30.6 A
Power Factor Range	0.8 lagging-0.8 leading					
General Parameter						
Dimensions(W*H*D) / Weight	708*440*170 mm / 30 kg					
Battery Module	**BTS 5K**					
Battery Type	$LiFePO_4$ - lithium iron phosphate battery					
Battery Module Energy [1]	5.12 kWh					
Rated Power	2.5 kW					
Topology	Isolation					
Dimensions(W*H*D) / Weight	708*420*170 mm / 50 kg					

[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. [5] Minimum PV voltage to start MPPT operation. [6] Full battery and sun.

*All specifications are subject to change without notice.