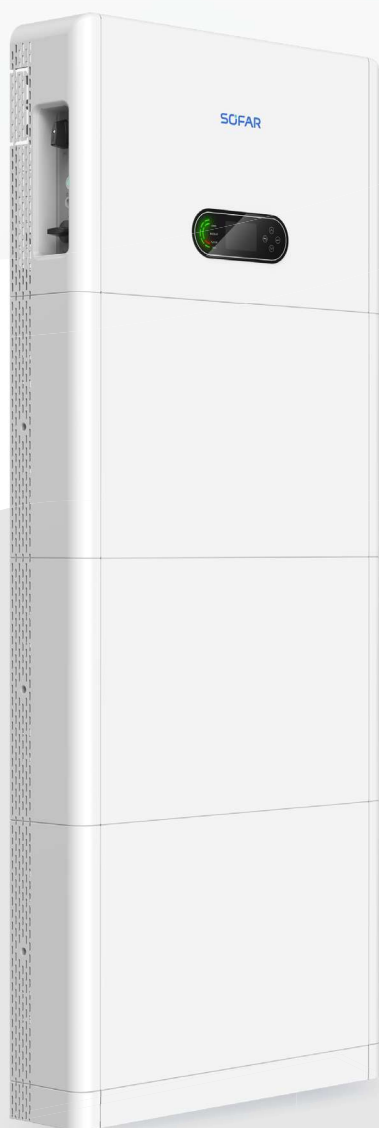


# PowerAll

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



### User-friendly

- Easy installation & extendable capacity
- Natural heat dissipation, no extra noise



### Flexible applications

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




### Safe & Reliable

- Up to 3 MPPTs 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 <sup>[1]</sup>	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh
IP Rating	IP65					
Operating Temperature Range <sup>[2]</sup>	Charge: -10°C ~ +50°C / Discharge: -20°C ~ +50°C					
Relative Humidity Range	5%-95%					
Max. Operating Altitude <sup>[3]</sup>	4000 m					
Weight	80kg	130kg	180kg	230kg	280kg	330kg
Dimension (W×H×D) <sup>[4]</sup>	708×920×170mm	708×1340×170mm	708×1760×170mm	708×1340×170mm 708×940×170mm	708×1340×170mm 708×1360×170mm	708×1760×170mm 708×1360×170mm
Base Dimensions (W×H×D)	620×60×170mm (floor installation), 620×310×170mm (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]					
<b>Inverter Module</b>	<b>ESI-5K-T1</b>	<b>ESI-6.5K-T1</b>	<b>ESI-8K-T1</b>	<b>ESI-9.9K-T1-A</b>	<b>ESI-10K-T1</b>	<b>ESI-12K-T1</b>
<b>PV Input</b>						
Recommended Max. PV Power	10 kWp	13 kWp	16 kWp	20 kWp	20 kWp	24 kWp
Max. Input Voltage	1000 Vd.c.					
Start-up Voltage <sup>[5]</sup>	200 Vd.c.					
Rated Input Voltage	600 Vd.c.					
MPP Voltage Range	160-950 Vd.c.					
Number of MPPT	3					
Max. Input Current	20/20/20A					
Max. Isc	25/25/25A					
<b>Battery</b>						
Voltage Range	3N--PE, 380/400/415 V.a.c.					
Max. Charging Current	50/60Hz					
Max. Discharging Current	15 A	19.5 A	24 A	29.7 A	30 A	30 A
<b>AC Backup</b>						
Rated Output Voltage	3N--PE, 380/400/415 V.a.c.					
Rated Output Frequency	50/60Hz					
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 <sup>[6]</sup>	2 times of rated power, 10s					
Switching Time	10ms default					
<b>AC Grid</b>						
Rated Voltage	3(N)--PE, 380/400/415 V.a.c.					
Rated Frequency	50/60Hz					
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	20.0/19.1/18.3 A
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					
<b>General Parameter</b>						
Dimensions (W×H×D) / Weight	708×440×170mm / 30kg					
<b>Battery Module</b>	<b>BTS 5K</b>					
Battery Type	LiFePO <sub>4</sub> - lithium iron phosphate battery					
Battery Module Energy <sup>[1]</sup>	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. inverter and batteries. [5] Minimum PV voltage to start MPPT operation. [6] Full battery and sun.

[4] Dimensions of the

\*All specifications are subject to change without notice.