

SOFAR POWERALL

5 / 6 / 8 / 10 / 12 kW

5 / 10 / 15 / 20 / 25 / 30 kWh

THREE-PHASE ALL-IN-ONE ESS

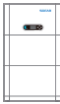


Product advantages

- Easy installation & flexible system expansion
- Low battery self-consumption, easy maintenance for transport and stock
- Multi-function EMS integrated, highly utilization ratio of solar energy
- Up to 3 MPPT with AFCI, more flexible configuration and security
- 2+2 battery safety design for protection of property and individuals



System Parameters

System Schematic						
Inverter Module	ESI 5-12K-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°C to +50°C / Discharge: -20°C to +50°C					
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*860*170 mm	708*1280*170 mm	708*1700*170 mm	708*1280*170 mm 708*840*170 mm	708*1700*170 mm 708*1260*170 mm	708*1700*170 mm 708*1260*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 5-12K-T1 Inverter Module] + N * [BTS 5K Battery Module]					
Inverter Module	ESI 5K-T1	ESI 6K-T1	ESI 8K-T1	ESI 10K-T1	ESI 12K-T1	
PV Input						
Recommended Max. PV Power	12000Wp			18000Wp		
Max. Input Voltage	1100 Vd.c.					
Start-up Voltage ^[5]	200 Vd.c.					
Rated Input Voltage	600 Vd.c.					
MPPT Voltage Range	160-960 Vd.c.					
Number of MPPT	1/1/1					
Max. Input Current	16/16/16 A					
Max. Isc	22.5/22.5/22.5 A					
Battery						
Voltage Range	350-435 Vd.c.					
Max. Charging/Discharging Current	25/30 A					
AC Backup						
Rated Output Voltage	3N--+PE,380/400/415 Va.c.					
Rated Output Frequency	50/60 Hz					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW	
Max. Apparent Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	
Peak Output Apparent Power	16000VA, 3s			24000 VA, 3 s		
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	5 kW	6 kW	8 kW	10 kW	12 kW	
Max. Apparent Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	
Max. Input Current	15.2/14.5/13.9 A	18.2/17.4/16.7 A	24.2/23.2/22.2 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)	708*440*170 mm					
Weight	30 kg					
Battery Module						
Battery Type	LFP					
Battery Module Energy ^[1]	5.12 kWh					
Rated Power	2.5 kW					
Topology	Isolation					
Dimensions(W*H*D)	708*420*170 mm					
Weight	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.

*All specifications are subject to change without notice.