

PowerAll

5 / 6 kW

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

SINGLE-PHASE ALL-IN-ONE ESS



Product advantages

- Stacking integrated design, easy installation
- Supports mixing old and new batteries, simple maintenance
- Built-in PCU, battery available energy increased by 6%
- Maximum 16A PV input current, compatible with high-current / bifacial modules
- Battery with physical and electrical isolation, safer system



Model

System Parameters

System Schematic						
Inverter Module	ESI 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 to +50°C / Discharge: -10°C to +50°C					
Allowable Relative Humidity Range	5%-95%					
Max. Operating Altitude ^[3]	4000 m					
Weight	74.5 kg	125.5 kg	176.5 kg	228.5 kg	279.5 kg	330.5 kg
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 5/6K-S1 Inverter Module] + N * [BTS 5K Battery Module]					
Inverter Module	ESI 5K-S1			ESI 6K-S1		
PV Input						
Recommended Max. PV Power	10000Wp			12000Wp		
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 Trackers	1/1					
Max. Input Current	16/16 A					
Max. Isc	22.5/22.5 A					
Battery						
Rated Voltage Range	400 Vd.c.					
Max. Charging/Discharging Current	20 A					
AC Input(Grid)						
Rated Input Voltage	L+N+PE, 220/230/240 Va.c.					
Rated Input Frequency	50/60 Hz					
Max. Input Current	45.5/43.5/41.7 A			54.5/52.2/50.0 A		
AC Output(Backup)						
Rated Output Voltage	L+N+PE, 220/230/240 Va.c.					
Rated Output Frequency	50/60 Hz					
Rated Output Power	5 kW			6 kW		
Max. Apparent Power	5 kVA			6 kVA		
Peak Output Apparent Power	7500VA, 60s			9000VA, 60s		
Switching Time	10 ms default					
Dimension (W×H×D)	708×410×170 mm					
Weight	22.5 kg					
Battery Module						
Battery Type	LFP					
Battery Module Energy	5.12 kWh					
Rated Power	2.5 kW					
Topology	Isolation					
Dimension (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.

*All specifications are subject to change without notice.