

STACK100

STACK100 is suitable for residential and small commercial and industrial scenarios. Rackless and stackable design is easy to plug and play. It supports 12 clusters in parallel with a maximum capacity of 921kWh and supports 1C charge/discharge.



Flexible Expansion

Up to 12 clusters in parallel,
15KWh--921KWh capacity



Battery Equalization

Free mixing of modules
within three years



Automatic Self-heating

-20°C to 55°C operating
temperature (optional)



Easy Installation

0 wiring, rackless free stacking,
plug-and-play, one cluster
installation in 30min



1C Rate

Suitable for grid frequency
regulation, charging stations and
other scenarios, cost saving



Ultra Safe

Intelligent fire extinguishing
system, detects and extin-
guishes fire in 5s

Model	STACK100-3S	STACK100-4S	STACK100-5S	STACK100-6S	STACK100-7S	STACK100-8S	STACK100-9S	STACK100-10S	STACK100-11S	STACK100-12S	STACK100-13S	STACK100-14S	STACK100-15S
Module Count per Stack	3	4	5	6	7	8	9	10	11	12	13	14	15
Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768
Operating Voltage (V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8	403.2~518.4	448~576	492.8~633.6	537.6~691.2	582.4~748.8	627.2~806.4	672~864
Nominal Battery Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8
Usable Battery Energy (kWh)	14.592	19.456	24.32	29.184	34.048	38.912	43.776	48.64	53.504	58.368	63.232	68.096	72.96
Recommended Charging & Discharging Power	7.68kW	10.24kW	12.8kW	15.36kW	17.92kW	20.48kW	23.04kW	25.6kW	28.16kW	30.72kW	33.28kW	35.84kW	38.4kW
Max. Charging & Discharging Power	15.36kW	20.48kW	25.6kW	30.72kW	35.84kW	40.96kW	46.08kW	51.2kW	56.32kW	61.44kW	66.56kW	71.68kW	76.8kW
Recommended Charge & Discharge C Rate	0.5C (50A)												
Max. Charge & Discharge C Rate	1C (100A)												
Peak Discharge Current (25°C)	125A (1.25C)												
Depth of Discharge (DOD)	95%												
Single Cluster Dimension [W/D/H] (mm)	590/390/(233+133*n),"n" stands for the number of battery modules												
Charging Temp. Range	0°C~55°C/-20°C~55°C(Optional)												
Discharging Temp. Range	-20°C~55°C												
Cycle Life *	≥8000 cycles												
Protection Level	IP20												
Communication	CAN/RS485												
Installation	Cable-free stacking												
Expansion	Up to 12 clusters in parallel												
User Interface	Built-in WIFI module; APP OTA function												
Cooling method	Fan Cooling												
Safety Protection	Aerosol fire extinguisher												
Certification	CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3/VED2510												
Compatible Inverters	Kostal/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG ect.												
Country of Manufacture	China												
Battery Module Name	S51100												
Battery Type	Lithium-iron Phosphate (LiFePO ₄)												
Nominal Energy	5.12kWh												
Nominal Capacity	100Ah												
Nominal Voltage	51.2V												
Net Weight	47kg												
Dimension[W/D/H]	590/390/133mm												

* Test conditions: 0.2C Charging& Discharging. @25°C, 95% DOD, 70%EOL

