

# 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



## Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s



## 1C Rate

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



## Easy Installation

Cable free connection between modules, plug-and-play, one cluster installation in 30min



## Automatic Self-heating

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



## Battery Equalization

Free mixing of modules within three years

# SPECIFICATION

Model	STACK100
Battery Type	LiFePO <sub>4</sub> (LFP)
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Module Number per Cluster	3~15 Pcs
Operating Voltage	134.4V~864V
System Energy Range	15.36kWh~76.8kWh
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge & Discharge C Rate	1C (100A)
Peak Discharge Current (25°C )	125A, 2min
Recommended Charge & Discharge Power	2.56kW
Max. Charge & Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0°C~55°C/-20°C~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight (kg) <sup>[1]</sup>	22+47*n
Single Cluster Dimension (W/D/H) <sup>[2]</sup>	590/390/233+133*n
Protection Level	IP20
Communication	CAN/RS485
Cycle Life <sup>[3]</sup>	≥8000 Cycles
User Interface	WIFI+APP
Safety Protection	Built-in aerosol fire extinguisher
Cooling method	Forced wind cooling
Installation	Cable-free stacking
Expansion	Up to 12 clusters in parallel
Warranty Period <sup>[4]</sup>	10 Years
Battery Module Name	S51100
Certification & Safety Standard	CE-EMC/CE-RED/IEC62619/63056/62477/62040/UN38.3/VED2510/CEI 0-21/CEI 0-16
Compatible Inverters	Kostal/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/Deye/Hoymiles/Solinteg ect.

Modul	SBDU100
Operating Voltage	134.4V~864V
Maximum Continuous Current	100A
Dimension (W/D/H)	590/390/133mm
Weight	15.3kg
Protection Level	IP20

[1] Net Weight of Expansion Base and Expansion Upper Cover: 12.5kg. "n" stands for the number of battery modules

[2] Height of Expansion Upper Cover: 70mm

[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

[4] Refer to Dyness Warranty Letter

