

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 ₄ (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) ^[1]	22+47*n
Single Cluster Dimension (W/D/H) ^[2]	590/390/233+133*n
Protection Level	IP20
Communication	CAN/RS485
Cycle Life ^[3]	≥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 ^[4]	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

