DYNESS

STACK100 Pro

STACK100 Pro 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

Safe & Reliable

5-layer safety protection, IP66 high protection rating

Battery Equalization

Free mixing of modules within three years

Easy Installation

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

Unparalleled Silence

Original cooling design with natural convection for ultimate silence

1C Rate

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

SPECIFICATION

Model	STACK100 Pro
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]	34.6+55*n
Single Cluster Dimension (W/D/H) [2]	657/460/292+169*n
Protection Level	IP66
Communication	CAN/RS485
Cycle Life [3]	≥8000 Cycles
User Interface	WIFI+APP
Safety Protection	Pressure relief valve, Aerosol fire extinguisher, Temperature probe, Aerogel pad between batteries(Optional), Fireproof protection for the module(Optional)
Cooling method	Natural Cooling
Installation	Cable-free stacking
Expansion	Up to 12 clusters in parallel
Warranty Period [4]	10 Years
Battery Module Name	S51100 pro
Certification & Safety Standard	CE-EMC/CE-RED/IEC62619/63056/62477/62040/UN38.3/VED2510
Compatible Inverters	Solis/GoodWe/Growatt/Deye/Solinteg ect.

Modul	SBDU100 Pro
Operating Voltage	134.4V~864V
Maximum Continuous Current	100A
Dimension (W/D/H)	657/460/193mm
Weight	23.5kg
Protection Level	IP66

[1] Net Weight of Expansion Base and Expansion Upper Cover: 18.8kg. "n" stands for the number of battery modules
[2] Height of Expansion Upper Cover: 92mm
[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL
[4] Refer to Dyness Warranty Letter

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Information might be subject to change without notice during product improvement.
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