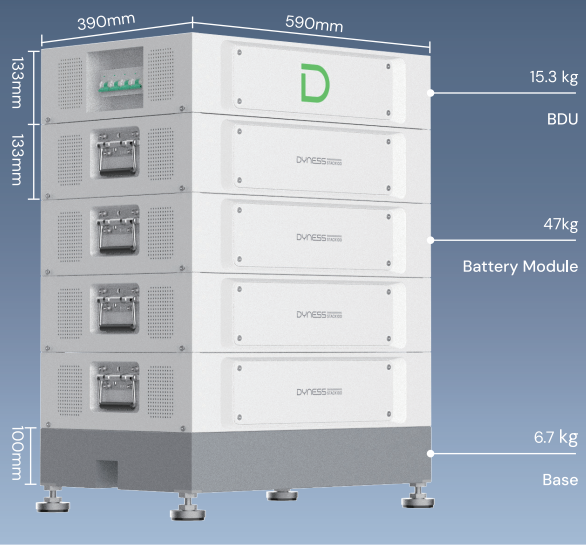
DYNESS

STACK100

5.12 kWh / Module, 76.8 kWh / System
Parallel up to 921 kWh

Compact Design
Flexible Deployment



Wiring-free Stack-up, Plug-and-play

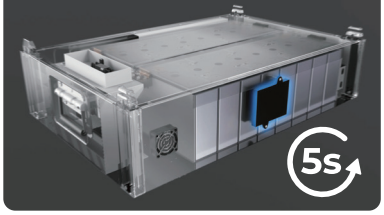
One cluster installation in **30min**



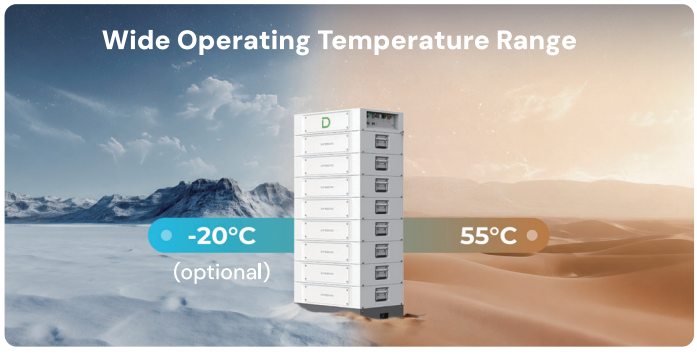
Charge/discharge faster

1C (100A)

Built-in aerosol fire extinguisher to eliminate fire risks

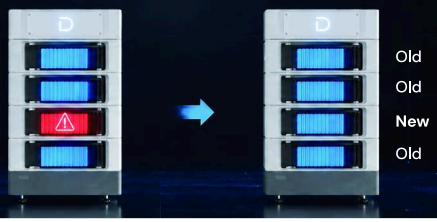


Wide Operating Temperature Range



Battery Equalization

Free mixing of modules **within 3 years**



File version-20260520-EN
Information might be subject to change without notice during product improving.

www.dyness.com
sales@dyness-tech.com

SPECIFICATION

Model	STACK100
Battery Type	$LiFePO_4$ (LFP)
Nominal Battery Energy	5.12 kWh
Usable Battery Energy	4.864 kWh
Nominal Capacity	100 Ah
Nominal Voltage	51.2 V
Module Number per Cluster	3~15 Pcs
Operating Voltage	134.4 V~864 V
System Energy Range	15.36 kWh~76.8 kWh
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge & Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	125 A, 2 min
Recommended Charge & Discharge Power	2.56 kW
Max. Charge & Discharge Power	5.12 kW
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 etc.

Module	SBDU100
Operating Voltage	134.4 V~864 V
Maximum Continuous Current	100A
Dimension (W/D/H)	590/390/133 mm
Weight	15.3 kg
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℃, 95% DOD, 70%EOL

[4] Refer to Dyness Warranty Letter