DYNESS

Tesla Solar SA



STACK280

STACK280 is suitable for small commercial and industrial scenarios.Rackless and stackable design is easy to plug and play. It uses a high capacity 280Ah battery to support 12 clusters in parallel with a maximum capacity of 2.58MWh.Built-in aerosol fire extinguisher that eliminates fire hazards within 5s, all around protection for your electrical safety.

Flexible Expansion

Up to 12 clusters in parallel, 43kWh~2.58MWh capacity

Ultra Safe

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

Easy Installation

Cable free connection between modules, plug-and-play

Long Life

LFP cells, 8000+ cycles, 10 years long warranty

Module Mixing

Mixing of modules within three years

Fast Charge/Discharge

Max. continuous charge/discharge current:200A

SPECIFICATION

Model	STACK280
Battery Type	$LiFePO_4$ (LFP)
Nominal Battery Energy	14.336kWh
Usable Battery Energy	13.619kWh
Nominal Capacity	280Ah
Nominal Voltage	51.2V
Module Number per Cluster	3~15 Pcs
Operating Voltage	134.4V~864V
System Energy Range	43kWh~215.04kWh
Recommended Charge & Discharge C Rate	0.5C (140A)
Max. Charge & Discharge C Rate	0.7C (200A)
Peak Discharge Current (25°C)	280A, 2min
Recommended Charge & Discharge Power	7.168kW
Max. Charge & Discharge Power	10.24kW
Depth of Discharge (DOD)	95%
Charging Temp. Range	0°C~55°C/-20°C~55°C(optional)
Discharging Temp. Range	-20°C~55°C
Net Weight (kg) [1]	38+110*n
Single Cluster Dimension (W/D/H) [2]	770/425/363+230*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	S51280
Certification & Safety Standard	UN38.3,CE-EMC,IEC62619
Compatible Inverters	Solis/Growatt/Sosen/Solinteg/Atess/Magarevo/Deye ect.

Modul	SBDU200
Operating Voltage	134.4V~864V
Maximum Continuous Current	200A
Dimension (W/D/H)	770/425/230mm
Weight	19.2kg
Protection Level	IP20

[1] Net Weight of Expansion Base and Expansion Upper Cover: 18.5kg.
[2] Height of Expansion Upper Cover: 80mm,."n" stands for the number of battery modules, up to a maximum of 8. If the installation is on an upper floor, you will need to evaluate the floor weighing before determining the number of stacks.
[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL
[4] Refer to Dyness Warranty Letter