

Micro DC ESS

Balcony Micro Energy Storage

S3-20

Lighter. Smaller.

Expandable up to 10 kWh, Max. 2400W PV Input.



40%+

Volume reduced

88.2%

Energy density increased

15 years

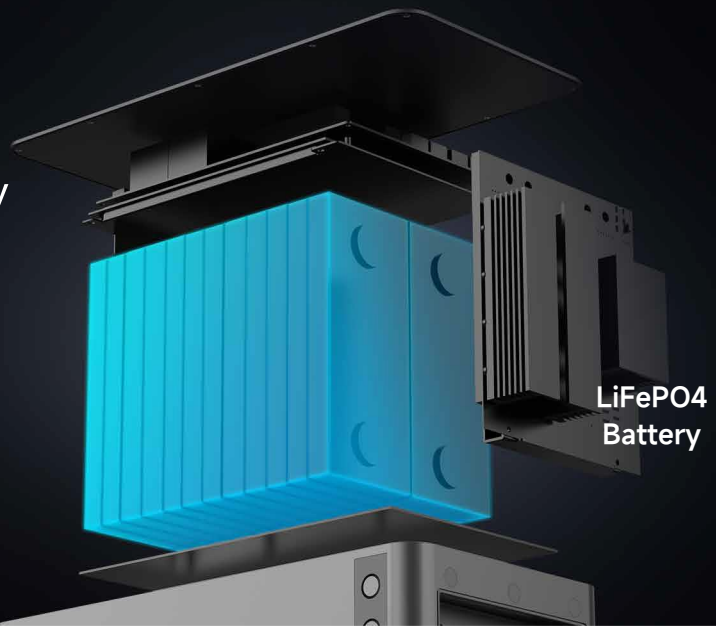
Lifetime Design

Safety and Reliability

High-Voltage Cell Boost Technology
Powered By LiFePO₄ Batteries

40%+
Volume
reduced

88.2%
Energy density
increased



Product Highlights

2 - 10 kWh

Easily expandable to 10 kWh capacity

 +  = **10 kWh** capacity
S3-20 4 x expansion battery 10 kWh capacity



**Compact Size
Massive Power**

Volume reduced
by over 40%



IP65

IP65 waterproof

-20°C

Operate at -20~55°C



Smart App

Real-time Monitoring
and Control



iRnergy



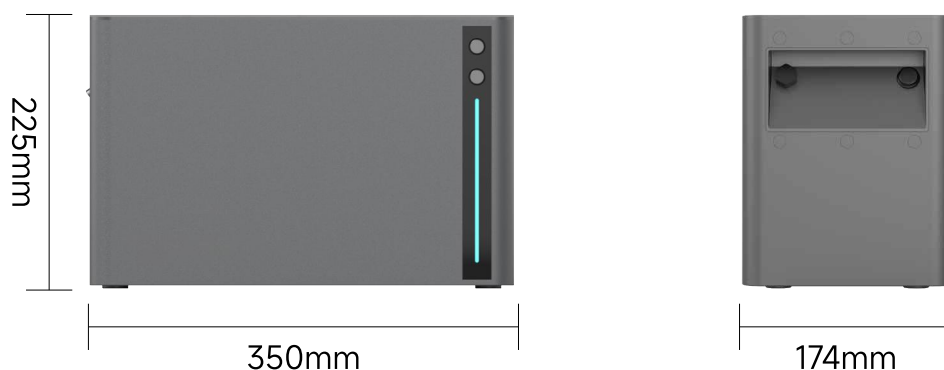
6000

Life Cycles

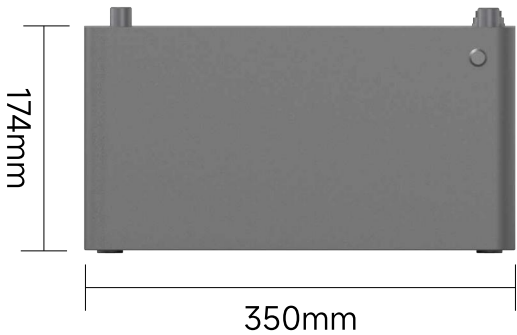
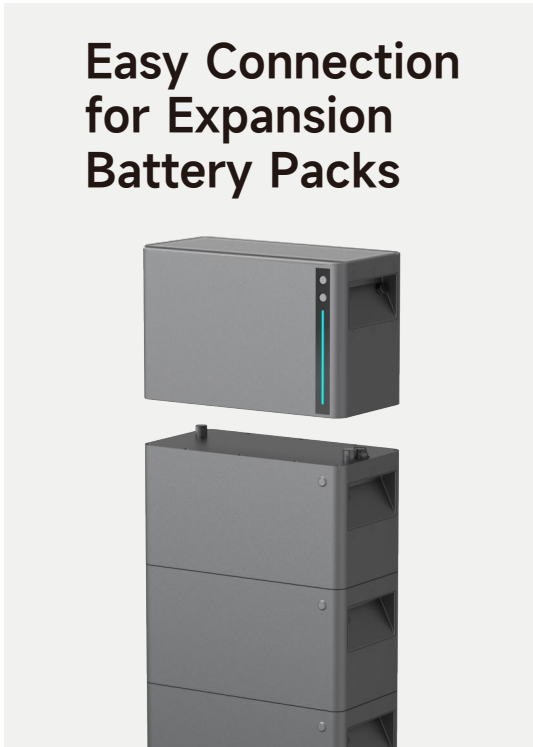
15years

Lifetime Design





Model		S3-20
PV Input	Recommended Module Power (W)	300-600+
	Maximum PV Input Power (W)	2400
	Startup Voltage (V)	15
	Maximum Single-channel Input Voltage (V)	60
	Single-channel Operating Voltage Range (V)	13-60
	MPPT Voltage Range (V)	20-54
	Single-channel Short-circuit Current (A)	40
	Maximum Single-channel Input Current (A)	32
	Number of Input Channels	2
	Maximum Number of Modules per Channel	2
Battery Info	Battery Type	LFP
	Battery Capacity (kWh)	2.01
	Maximum Expandable Capacity (kWh)	10
	Rated Voltage (V)	51.2
	Operating Voltage Range (V)	43.2-57.6
	Rated Discharge Power (W)	800
	Maximum Discharge Current (A)	30
	Maximum Charge Power (W)	2400(Extended battery pack)
	Rated Discharge Current (A)	25
DC Output	Maximum Output Power (W)	1200
	Maximum Current (A)	30
	Output Voltage Range (V)	20-45
Efficiency	MPPT Efficiency	99.90%
	Battery Charge-Discharge Efficiency	94.00%
General	Dimensions (L×W×H, mm)	350*174*225
	Weight (kg)	20
	Communication	WiFi(BT)+RS485
	Protection Class	IP65
	Cooling Method	Natural Cooling
	Operating temperature	-20~55°C
	Relative Humidity	0-95%, No Condensation
	Maximum Operating Altitude (m)	2000
Certifications		CE; WEEE; UN38.3; ROHS; REACH; IEC62619



Model		SE-20
battery pack info	Battery Type	LFP
	Battery Capacity (kWh)	2.01
	Rated Voltage (V)	51.2
	Operating Voltage Range (V)	43.2-57.6
	Rated Discharge Power (W)	800
	Maximum Discharge Current (A)	25
	Dimensions (L×W×H, mm)	350*174*182
General	Weight (kg)	18
	Protection Class	IP65
	Cooling Method	Natural Cooling
	Operating temperature	-20~55℃
	Relative Humidity	0-95%, No Condensation
	Maximum Operating Altitude (m)	2000
Certifications		CE; WEEE; UN38.3; ROHS; REACH; IEC62619