

Battery Energy Storage System for commercial and industrial buildings

Schneider Boost Pro
EcoStruxure Energy Asset Controller or Gateway for BESS

Easily integrating flexibility into your electrical installation

- Up to 2.15 MWh of storage by combining up to 10 units.
- Seamless connection (Modbus TCP/RTU) with existing infrastructure and energy assets (PV, EV)
- Integrated fire prevention and suppression system
- Embedded electrical protection devices
- Comprehensive data protection and encrypted communication
- Remote maintenance and Over-The-Air updates
- 90.8% round-trip efficiency

Benefits

- Operational reliability and peace of mind through robust safety system and cybersecurity-focused design.
- Achieve peak performance with quick connection to existing energy assets and multiple energy strategies support.
- Easily scale up to 2.15MWh by combining 10 power cabinets.

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Battery Energy Storage System for commercial and industrial buildings

An all-in-one solution combining hardware, software, and services designed to evolve with your needs and deliver lasting performance.



Schneider Boost Pro

Schneider Boost Pro is a 215kWh stationary storage system designed for commercial and industrial sites.



EcoStruxure Energy Asset Controller

An edge controller enabling on-site monitoring, control, and optimization of a site's electrical assets (battery, solar, EV charging infrastructure...).



EcoStruxure Energy Asset Portal

A web-based Manufacturer Portal enabling remote diagnostics and maintenance to optimize uptime and operational efficiency.

Providing solutions for different energy strategies

Self-consumption optimization

Store excess solar/wind production and use it later to avoid grid imports

Peak shaving

Use precharged BESS when the required energy is higher than the site available energy

Time of Use Tariff

The battery charges during off-peak hours, when electricity prices are low, and discharges during peak hours, when prices are high, to reduce energy costs.



EcoStruxure Energy Storage Gateway

A gateway to connect up to 10 Schneider Boost Pro to Energy Management Systems that enable advanced energy management features.

Depending on the upstream Energy Management System, EcoStruxure Energy Storage Gateway and Schneider Boost Pro can provide additional use-cases such as demand-response for immediate frequency stabilization and containment, off-grid capability, or other.

Schneider Boost Pro specifications

AC side	
Rated power	100 kW
Grid type	3P+N+PE
AC rated voltage	400 V AC
AC rated current	145 A
AC voltage range	85%~ +110%
Rated frequency	50 Hz
AC frequency range	47-52 Hz
Power factor	-1...+1, (Power factor at rated power/adjustable power factor)
Power accuracy	+/- 1.5%
THDI	<3% (rated power)
THDU	<3% (rated conditions, resistively balanced load)
Over-voltage category	OVCIII
DC side	
Cells type	314 Ah / LFP Prismatic
Pack configuration (parallel / series)	1P20S
Cluster configuration (parallel / series)	1P240S
Nominal energy	215 kWh
Usable energy	215 kWh (100% DoD)
Rated voltage	768 V DC
Voltage range	650 to 864 V DC
Self-discharge rate	3.52% @ 100% SoC and 28 days
Power fade	0% * based on battery supplier analysis on SoH >=70% condition
Over-voltage category	OVCII



Schneider Boost Pro specifications

System feature	
Grid-following function	Supported
Grid-forming function	Supported with condition
Black-start function	Not supported
Max system efficiency	90.80%
Charge/discharge rate	0.47P
Depth of Discharge	100%
Supported communication interface	Ethernet (LANx1)
Anti-salt mist grade	C5M (Only the case metal)
IP degree	IP55
Cooling	PCS: Forced air Battery: air-conditioning cooling/heating
Fire-extinguishing system	Aerosol fire-extinguisher
Operation ambient temperature	-20°C ~ 55°C derating > 45°C (Charging and discharging mode)
Operation altitude	2000m
Storage temperature	0°C ≤ T ≤ 35°C (standard) 6 months ; -20°C < T ≤ 45°C (limit) 1 month ; ≤ -20°C & > 45°C Not permitted
Cold-start heating power/duration	Supported
Over/under voltage protection	Yes
Over current/short current protection	Yes
Over temperature protection	Yes
Surge protection	Yes
DC protection	Yes
AC protection	Yes
Aux protection	Yes
Dimensions (L×W×H)	1257 mm × 1437 mm × 2180 mm
Weight	2647 Kg



Note: *(1) Respect to different local regulation, the compatible grid voltage could be configurable /
*(2) Respect to different local regulations, the compatible grid frequency could be configurable /
*(3) C5M grade applies to case metal of the cabinet

Certifications	
Standard compliant	EN IEC/IEC 62619 EN IEC/IEC 63056 EN 50549-1/2, EN 50549-10 UL9540A EN 62477-1 EN/EN IEC 61000-6-2 & 4 Regulation (EU) 2023/1542 (as applicable) UN38.3 RoHS REACH

EcoStruxure Energy Asset Controller or EcoStruxure Energy Storage Gateway

Specifications	
Dimensions (H x W x D)	137 × 108 × 36 mm
Weight	654 g
Installation method	Din-Rail
Operating voltage range	9 ~ 28 V DC
Max power dissipation	15 W
Rated power consumption	5 W
Rated voltage	24 V
4G communication	LTE-CAT4
Ethernet interface	LAN and WAN
RS485 interface	4 Channels, isolated
CAN interface	2 Channels, isolated
Micro SD	1 canal, ≤32 Go
Operating system	Linux
Communication protocol	Modbus RTU, Secured Modbus TCP, MQTT
Protection grade	IP20
Operating ambient temperature	-35°C ~ +65°C
EMC level	Class A
Compliance	EN 62368-1 EN 62311 EN 55032 EN 55035 EN 61000-6-2 EN 61000-6-4 EN 301 489-1 V1.9.2 EN 301 489-1 V2.2.3 EN 301 489-52 V1.2.1 EN 301 489-52 V1.3.1 EN 301 511 V12.5.1 EN 301 908-1 V15.2.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.2.1 EN 18031-1:2024 RoHs REACH
Over-The-Air update	Supported



Commercial references

Commercial references	
Schneider Boost Pro	BAT215KPCS100K3EU2
EcoStruxure Energy Asset Controller	EPCEACEU1
EcoStruxure Energy Storage Gateway	EPCEGWEU1
Accessory	EPCEACACCEU1

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