

SUNSYS Xtend

Make your own energy storage solution
for on-grid and off-grid applications



When **energy** matters

 **socomec**
Innovative Power Solutions

Socomec, your technology partner for energy storage

As a specialist in energy management, we understand that you strive to offer solutions and services that will improve your customers' energy performance.

You are looking for complete plug and play energy storage systems.

Whatever the expectations of your next project, Socomec is your technology partner for energy storage.



SITE 885 A

Perfectly suited for C&I Building challenges

- Limitation of peak demand.
- Shifting of energy consumption.
- Maximisation of the self-consumption of renewable production.
- Compensation of reactive energy consumption.
- Commercialisation of grid services to the network operator.



SITE 1026 A

Unrivalled services for microgrids

- Autonomous electricity supply for off-grid microgrids.
- Improved resilience for grid-tied microgrids.
- Multi-source management (renewable, diesel...).
- Optimisation of the usage of diesel generators.
- Guaranteed energy quality.

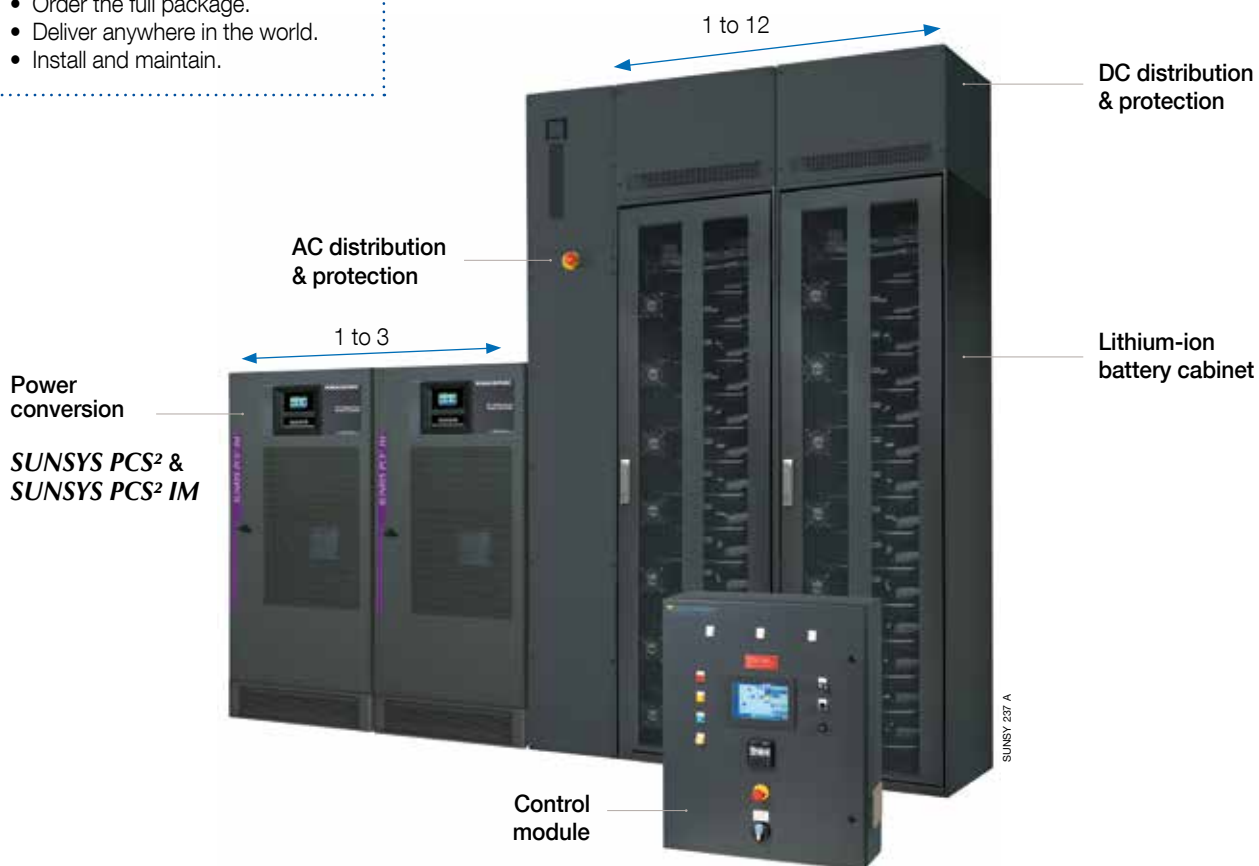
SUNSYS Xtend modular architecture

From 33 kVA to 600 kVA/92 kWh to 1.1 MWh

SUNSYS Xtend ESS combines lithium-ion batteries with Socomec Power Converters -managed by a control system, and with all the necessary AC and DC distribution and protection - to offer a completely integrated Energy Storage System, optimised for on-grid and off-grid applications. This architecture can easily be interfaced with third-party Energy Management Systems (EMS) to provide the widest range of energy services.

It's easy to...

- Select the adapted configuration.
- Order the full package.
- Deliver anywhere in the world.
- Install and maintain.



The solution for



C&I Buildings



Microgrids
(grid-tied or
pure off-grid)

Complementary needs?



Socomec has created a dedicated team to help bring your vision to life, by engineering turnkey solutions.

Your benefits



APPLI 868



Integration

- Indoors within buildings.
- Outdoors within a container*.



Multiple configurations

- 16 for building integration.
- 23 for container integration.



Third party interfacing

- With any EMS software.
- SUNSPEC compliant for easy pairing with PV and Batteries.



Standard compliant

- EN 62477-1: safety requirements for power electronic converter systems and equipment.
- IEC 62619: safety requirements for secondary lithium cells and batteries, for use in industrial applications.
- Compliant with many grid codes (consult us for details).
- UL Compliant.



Fully tested & documented

- Factory or site acceptance tests.
- Instruction manual for installation and operation.



Services

- On-site commissioning.
- Training.
- Warranty extension.
- Remote control.
- Maintenance.

* To define the container architecture contact our engineering team.

Range components

With a concise and carefully edited range of components, SUNSYS Xtend can be engineered to create a wide range of configurations.

1



Power conversion

SUNSYS PCS² & SUNSYS PCS² IM

- Bidirectional power converters.
- Units of 33, 66, 100, 132 and 200 kW.
- On-grid and off-grid applications.
- Scalable up to 3 units.



2



AC/DC distribution & protection

- Fuse protection for AC and DC distribution.
- Load break switches for AC and DC power distribution.
- Insulation monitoring.
- Adapted enclosures and cabinets for AC and DC distribution.



3



Lithium-ion battery cabinet

- Lithium-ion technology.
- Scalable up to 12 battery racks of 91.3 or 137 kWh.
- Management via a BMS interfaced with the control system.
- Battery Power Supply.



4



































Control module

- Multiple power converters management.
- Battery management and data logging.
- Wide range of functionality for on-grid and off-grid management.
- Management by embedded webserver and remote control (optional extra).
- Metering and monitoring via Diris DIGIWARE system.







































Configurations

SUNSYS Xtend is a compact installation designed for integration into buildings or containers.

Configurations for building integration

Power	Energy Autonomy		
	1 hour	2 hours	4 hours
33 kW	•	 x1 /  x1 - 91.3 kWh	 x1 /  x2 - 183 kWh
66 kW	 x1 /  x1 - 91,3 kWh	 x1 /  x2 - 183 kWh	 x1 /  x4 - 365 kWh
100 kW	 x1 /  x2 - 183 kWh	 x1 /  x2 - 274 kWh	 x1 /  x4 - 548 kWh
132 kW	 x1 /  x2 - 183 kWh	 x1 /  x4 - 365 kWh	 x1 /  x5 - 685 kWh
200 kW	 x1 /  x3 - 274 kWh	 x1 /  x4 - 548 kWh	•
264 kW	 x2 /  x4 - 365 kWh	 x2 /  x5 - 685 kWh	•
400 kW	 x2 /  x5 - 685 kWh	•	•

Configurations for container integration

Power	Energy Autonomy		
	1 hour	2 hours	4 hours
33 kW	•	 x1 /  x1 - 91,3 kWh	 x1 /  x2 - 183 kWh
66 kW	 x1 /  x1 - 91,3 kWh	 x1 /  x2 - 183 kWh	 x1 /  x4 - 365 kWh
100 kW	 x1 /  x2 - 183 kWh	 x1 /  x3 - 274 kWh	 x1 /  x6 - 548 kWh
132 kW	 x1 /  x2 - 183 kWh	 x1 /  x4 - 365 kWh	 x1 /  x8 - 730 kWh
200 kW	 x1 /  x3 - 274 kWh	 x1 /  x6 - 548 kWh	 x1 /  x11 - 1004 kWh
264 kW	 x2 /  x4 - 365 kWh	 x2 /  x8 - 730 kWh	•
400 kW	 x2 /  x6 - 548 kWh	 x2 /  x12 - 1096 kWh	•
600 kW	 x3 /  x9 - 822 kWh	•	•

Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,600 employees
worldwide

10 % of sales revenue
dedicated to R&D

400 experts
dedicated to service provision

Your power management expert



POWER
SWITCHING



POWER
MONITORING



POWER
CONVERSION



ENERGY
STORAGE



EXPERT
SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

12 production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)

28 subsidiaries and commercial locations

- Algeria • Australia • Belgium • China • Canada
- Dubai (United Arab Emirates) • France • Germany
- India • Indonesia • Italy • Ivory Coast • Netherlands
- Poland • Portugal • Romania • Singapore • Slovenia
- South Africa • Spain • Switzerland • Thailand
- Tunisia • Turkey • UK • USA

80 countries

where our brand is distributed

HEAD OFFICE

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