

NON-HEATED VERSION

# AuroraCell

## 9,3 kWh · 48 V

### RESS Pack

#### Residential Energy Storage System

Standalone sodium-ion storage engineered for safe, long-life residential energy independence.

## ULTRA SAFE

### Sodium-ion System

Designed for safe residential energy storage

**30.000 CYCLES**

@ 100% DoD

**9,3 kWh**

**RATED ENERGY**



FLOOR-STANDING • PASSIVE COOLING • IP55

# 20 YEARS

## Performance Warranty\*

For normal residential daily cycling

\*Limited warranty. Full signed warranty terms and operating conditions apply.

## MADE FOR RESIDENTIAL STORAGE

# Safe. Scalable. Built for daily use.

AuroraCell combines sodium-ion NCO chemistry, an integrated BMS and passive thermal design in a compact 48 V 200 Ah residential storage platform.

Na+

**Sodium-ion chemistry**

NCO cell chemistry designed for stable, long-life residential operation.

SAFE

**Ultra-safe design**

Integrated protection logic and maintenance-free, enclosed construction.

30k

**Long cycle life**

30,000 cycles at 25°C and 100% depth of discharge under specified conditions.

-20-60

**Wide charging range**

Charge operation from -20°C to 60°C for the non-heated pack.

-40

**Cold discharge**

Discharge capability from -40°C to 60°C within the BMS operating window.

15×

**Modular expansion**

Up to 15 packs in parallel; the first pack coordinates the connected packs.

## Compatible with leading 48 VDC hybrid inverter platforms

Communication and operating settings must be commissioned for the selected inverter.

Victron

Deye

Solis

Growatt

Schneider Electric

SMA

Sungrow

SOFAR

Studer

Ingeteam

Additional compatible brands may be available on request.

## NON-HEATED VERSION

# Technical data

Approved pack specifications for the November production version.

## Electrical & performance

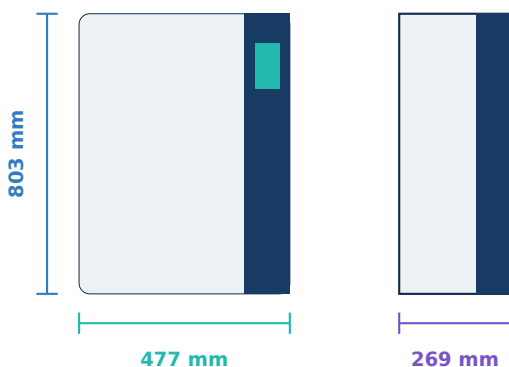
|                    |                    |
|--------------------|--------------------|
| Rated energy       | 9.3 kWh @ 100% DoD |
| Nominal capacity   | 200 Ah             |
| Nominal voltage    | 48 V               |
| Operating range    | 32.0–54.4 V        |
| Cell configuration | 16S1P              |
| Chemistry          | Sodium-ion NCO     |
| Standard charge    | 50 A               |
| Standard discharge | 50 A               |
| Maximum discharge  | 100 A              |
| System resistance  | ≤ 50 mΩ            |
| Battery RTE        | ≈ 95%              |

## Operating & mechanical

|                       |                             |
|-----------------------|-----------------------------|
| Charging temperature  | –20 to 60°C                 |
| Discharge temperature | –40 to 60°C                 |
| Cycle life            | 30,000 @ 25°C / 100% DoD    |
| Ingress protection    | IP55                        |
| Overall dimensions    | 477 × 269 × 803 mm          |
| Approx. weight        | 110–110.5 kg                |
| Cooling               | Passive / no active cooling |
| Parallel operation    | Up to 15 packs              |
| Pack coordination     | First pack controls others  |
| Product warranty      | 10 years limited            |
| Performance warranty  | 20 years limited            |

## Overall dimensions

W × D × H



## Documentation & compliance

### COMPLETE

UN38.3 • MSDS • User Manual • Product Brochure  
CE Certification • IEC 62619 Test Report

### PENDING

UL9540A • UL9540 • UL1973

Status reflects the November production version.

## LONG-TERM ASSURANCE

# Warranty & usable energy

Clear warranty positioning and a practical inverter cut-off reference for system design.

## 20 YEARS

### Limited Performance Warranty

Normal residential daily charge-and-discharge cycling\*

## 25 YEARS

### Design Life

Design target; not an extra warranty term

**Also included: 10-Year Limited Product & Workmanship Warranty**

\*The 20-year performance warranty applies to normal residential daily cycling within the BMS-defined operating window and compatible inverter settings. It is not a fixed retained-capacity, usable-energy or AC-output guarantee. Full signed warranty terms, exclusions and claim requirements apply.

## Inverter lower cut-off reference

Battery-side reference values

| Inverter lower cut-off voltage | Approx. usable battery energy |
|--------------------------------|-------------------------------|
| 32 V                           | 9.30 kWh                      |
| 34 V                           | 9.10 kWh                      |
| 36 V                           | 8.80 kWh                      |
| 38 V                           | 8.40 kWh                      |
| 40 V                           | 8.10 kWh                      |
| 42 V                           | 7.70 kWh                      |

### SYSTEM-DESIGN NOTE

Usable-energy values are approximate. Actual delivered energy varies with temperature, current, wiring losses, BMS reserve and inverter efficiency. Use only approved lower cut-off and communication settings.