

# Syntero Series

## High voltage residential

Autarco HVR Syntero Series was designed to meet the needs of the most demanding users. This high voltage battery supports up to 1C charge and discharge rate. This stackable solution can be extended from 7.7 kWh to 23 kWh within one stack, and up to 230 kWh with 10 stacks. The HVR Syntero Series is suitable to be used outside thanks to IP55 rating and built in heating module. It is fully compatible with all Autarco 3-phase hybrid inverters.

- + Flexible installation
- + Up to 10 stacks connected in parallel (230 kWh)
- + Up to 1C charge and discharge rate
- + Remote firmware update possibility via Autarco applications (coming soon)
- + 8000 cycles\*



Dimensions (w x h x d)	587 x 788 x 310 mm (height for HVR7, each additional battery module adds 221 mm)
Net Weight	105 kg (weight for HVR7, each additional battery module adds 38.25 kg)
Battery type	LFP (LiFePO <sub>4</sub> )
IP-protection class	IP55
Warranty	10 years (BDU) / 15 years (battery module)**
Communication	CAN/RS485/RS232
Cycle life	8000 cycles / 80% EOL (25 °C, 95% DOD, 0,5P)
Standards	UN38.3/CE-EMC/IEC62619/IEC61000/IEC62477
Charge temperature range	-20 °C to + 55 °C
Discharge temperature range	-20 °C to +55 °C
Fire protection system	Aerosol

## Battery technical specifications

Model	HVR7	HVR11	HVR15	HVR19	HVR23
Capacity	7.7 kWh	11.5 kWh	15.3 kWh	19.2 kWh	23.0 kWh
Depth of discharge (DoD)			95%		
Nominal cell capacity			40 Ah		
Nominal Voltage	192 V	288 V	384 V	480 V	576 V
Operating Voltage	168-216 V	252-324 V	336-432 V	420-540 V	504-648 V
Maximum charge and discharge rate	7.68 kW	11.52 kW	15.36 kW	19.2 kW	23.04 kW

\*Measured at 25C, 100% DOD with 1h between the cycles.

\*\* Please refer to the warranty document for detailed scope of the 10 years warranty.

