

# eSTORE 512-2000-60-O

**LiFePO4 HV battery rack + 60kW HV inverter**



|                         |                               |
|-------------------------|-------------------------------|
| Order code:             | <b>eSTORE 512-2000-60-O</b>   |
| Order code HV inverter: | <b>hv-60-3p-01</b>            |
| Description:            | High performance battery pack |
| Technology:             | LiFePO4                       |
| Cell:                   | Grade A prismatic cell        |
| Cycles:                 | Over 6500 cycles with 80% DoD |
| Rack batteries:         | <a href="#">rb_512-200-r</a>  |
| BMS:                    | High end BMS                  |
| EMS compatibility:      | Robotina xEMS, Modbus         |

## Features

Industry grade ESS with high energy and power density, scalability and excellent performance. When

integrated with Robotina xEMS, this LiFePO4 battery implements client's energy strategy.

## Technical specification for battery

|                           |                          |
|---------------------------|--------------------------|
| Nominal capacity:         | 102.4kWh                 |
| Nominal voltage:          | 512V                     |
| End of discharge voltage: | 440V                     |
| Charging voltage:         | 560V                     |
| Continuous Charge I:      | 100A                     |
| Continuous Discharge I:   | 100A                     |
| Peak Charge/Discharge I:  | 150A                     |
| Internal impedance:       | >10mOhm                  |
| Charge temperature:       | 0..45°C                  |
| Discharge temperature:    | -10..55°C                |
| Parallel Connection:      | up to 10 (more optional) |
| MBS communication:        | CAN/S485                 |
| Self discharge:           | <2.5%/Mo                 |
| Weight:                   | 1080kg                   |
| Dimensions (WxHxD):       | 1300x1220x980mm          |
| Installation method:      | floor-standing           |
| Environment:              | Outdoor IP54             |
| Air conditioning:         | 1.5 kW, DC power         |

# Technical specification for inverter

## AC output data

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Rated output power of AC and UPS (W): | 60000                             |
| Rated AC Input/Output current(A) :    | 91/87                             |
| Max AC Input/Output current(A):       | 100/95.7                          |
| Output frequency and voltage:         | 50/60Hz; 230Vac/400Vac (3 phases) |

## PV input data

|                         |                   |
|-------------------------|-------------------|
| Max DC input power (W): | 96000             |
| PV input voltage (V):   | 1000              |
| Starting voltage (V):   | 180               |
| PV input current (A):   | 36+36+36+36+36+36 |

## Connected battery input data

|                              |          |
|------------------------------|----------|
| Battery voltage range (V):   | 160-1000 |
| Max charging current (A):    | 80+80    |
| Max discharging current (A): | 80+80    |

## General technical data

|                            |                  |
|----------------------------|------------------|
| Working temperature (°C):  | -40 ~ 60         |
| Communication with BMS:    | RS485,RS232, CAN |
| Weight (kg):               | 97,5             |
| Degree of protection (IP): | IP65             |

## Dimensions

