Robotina d.o.o.
OIC Hrpelje 38
SI-6240 Kozina
Slovenia

1. eSTORE 512-1000-50-O

LiFePO4 HV battery rack + 50kW HV inverter



Order code:	**eSTORE 512-1000-50-O**
Order code HV inverter:	**hv-50-3p-01**
Description:	High performance battery pack
Technology:	LiFePO4
Cell:	Grade A prismatic cell
Cycles:	Over 6500 cycles with 80% DoD
Rack batteries:	rb_512-100-r
BMS:	High end BMS
EMS compatibility:	Robotina xEMS, Modbus

1.1. 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.

1.2. Technical specification for battery

Nominal capacity:	51.2kWh
Nominal voltage:	512V
End of discharge voltage:	440V
Charging voltage:	584V
Continuous Charge I:	100A
Continuous Discharge I:	100A
Peak Charge/Discharge I:	150A
Internal impedance:	>10mOhm
Charge temperature:	0..45°C
Discharge temperature:	-10..50°C
Parallel Connection:	up to 10 (more option)
MBS communication:	CAN/S485
Self discharge:	<2.5%/Mo
Weight:	700kg
Dimensions (WxHxD):	700x2250x700mm
Installation method:	floor-standing
Environment:	Outdoor IP54
Air conditioning:	1.5 kW, DC power

1.3. Technical specification for inverter

AC output data

Rated output power of AC and UPS (W):	50000
Rated AC Input/Output current□A) :	75.8/72.5
Max AC Input/Output current□A□:	83.4/79.8
Output frequency and voltage:	50/60Hz; 230Vac/400Vac (3 phases)

PV input data

Max DC input power (W):	65000
PV input voltage (V):	1000
Starting voltage (V):	180
PV input current (A):	36+36+36+36

** Connected battery input data**

Battery voltage range (V):	160-800

Max charging current (A):	50
Max discharging current (A):	50

** General technical data**

Working temperature (℃):	-40 ~ 60
Communication with BMS:	RS485, CAN
Weight (kg):	80
Degree of protection (IP):	IP65

** Dimensions **

