AE-SRSEE-44-001 - Battery Pack

Efficient, secure and reliable, the **44.2 kWh** Battery Pack is an **Electrical Energy Recovery** and **Storage System** dedicated to professional river and marine applications.

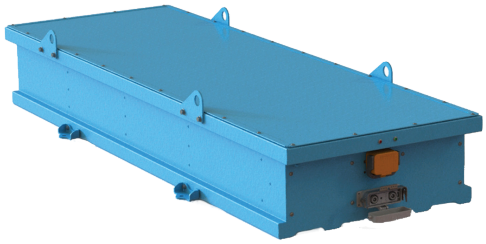
One serie of **16 AE-M-001 modules** form a **Battery Pack**.

TECHNICAL SPECIFICITIES:

- Pack 44,2 kWh (nominal voltage 614V)
- Integrated battery management system (BMS) and electrical protection
- Pack available in «Heavy duty» version with greater charging and discharging power (see table)
- Manual disconnector (lockout)
- Power connector and single control
- Lithium Iron Phosphate LiFePO4 technology
- Air cooling (forced air in «Heavy duty» configuration)
- CAN-Open communication protocol
- Reliable and industrial IP2X connector

BUREAU VERITAS Certification

BV Marine type certification in progress



PACK BENEFITS :

- Battery pack specifically adapted to marine applications (resistance to temperatures, vibrations, CEM)
- Construction from reliable, efficient and secure Li-Ion cells (LiFe PO4 - CALB produced at more than 3GWh / year since 2015)
- Adapted design for reliable and easy mechanical / electrical integration
- High energy density
- Stable and intrinsically safe behavior
- High discharge capacity
- Lifetime 96,000 kWh unloaded (80% DOD), duration greater than 10 years for standard application
- Overpressure blowhole
- Fire extinguishing device on request, battery flooding possible
- Fire resistant stainless steel container (A0)

OUR TECHNOLOGICAL REQUIREMENTS:

Our pack presents **clean solution** standard.

All elements meet lot of identified tests. **Type BV Marine certification** is in the process. For the user, this is the guarantee to obtain the maximum level of efficiency, reliability and safety.

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Cell

- IEC 62619 | Security requirement
- EMC | Electromagnetic compatibility
- UN 38.3 | Transport certification
- EN 62133 | Mobile application security requirement
- Tests : WarmUP, Overload and short circuit

Module and BMS

- IEC 62619 et 62620 | Security requirement
- IEC 60068 | Environmental requirements (vibrations, heat, humidity, cold)
- IEC 61000 | Electromagnetic compatibility
- CISPR 16 | Immunity to electromagnetic interferencies

Denomination [unit]	Standard SRSEE Pack (Heavy Duty)		
Packs in parallel	1	2	10
Voltage			
Nominal voltage [V]	614		
Charge maximum voltage [V]	712		
Discharge minimum voltage [V]	538		
Performances			
Nominal capacity [kWh]	44,2	88,4	442
Charging power [kW]	15 (44)	30 (88)	150 (440)
Discharge power [kW]	88 (120)	176 (240)	880 (1200)
Massic energy [Wh/kg]	90 (89)		
Volumic energy [Wh/L]	132 (97)		
Lifetime (80%DOD) [kWh]	>96 000	>188 000	>960 000
	Equivalent to 10 years of a standard application		
Thermal			
Cooling	Air (forced)		
Operating temperatures [°C]	in Charge 0 à 45 in Discharge -20 à 50		
Mechanical characteristics			
Mass [Kg]	490 (498)	980 (996)	4 900 (4980)
Length [mm]	1905	Configuration function	
Width [mm]	800 (870)		
Height [mm]	275		
Protection index [IP]	IP65 (IP63)		
Positioning	Horizontal or Vertical		

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