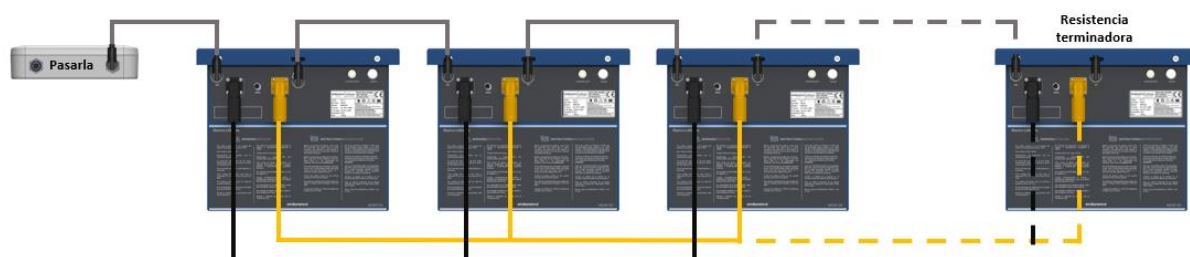


Parallel configuration Marine Series



- **More energy available**

The Lithium battery has a discharge capacity of 95% without affecting its lifespan, compared to lead-acid batteries which should not discharge more than 65%.

- **Extended life**

Working in the same conditions, the number of cycles for lithium batteries is 4-5 times higher than the number of cycles for lead-acid batteries.

- **BMS and contactor integrated in each unit**

Each module has its own BMS and cut-off capability, allowing for greater safety and speed of response to provide more robustness and protection to the system.

- **Lower energy costs.**

Marine Lithium batteries increase charge/discharge energy efficiency by 30% compared to lead-acid batteries.

- **Remote monitoring system.**

Our batteries have a monitoring system that allows the owner to know the consumption and utilisation parameters of the vessel at all times.

- **Lighter**

Especially useful for those installations that require more power for their operation, both in start-up and in services.

Technical Data *Marine Series*

Battery model	24V / 420 Ah	48V / 210 Ah	96V / 105 Ah
Characteristics			
Technology	Lithium / Iron Phosphate (LiFePO4)		
Cell floating voltage	3,4V		
Cell configuration	8SP4	16S2P	30S1P
Nominal Voltage	25,6V	51,2V	96V
Rated capacity	420Ah	210Ah	105Ah
Rated energy	10,75 KWh	10,75 KWh	10,08 KWh
Specifi energy	136 Wh/kg	136 Wh/kg	134 Wh/kg
Dimensions* (L x W x H)	605x396x315 mm		
Weight**	79 kg		
Charge			
Maximum charging voltage	28,8V	57,6V	108V
Floating voltage	27,2V	54,4V	102V
Minimum voltage	21,6V	43,2V	81V
Recommended charge current	0,5C	0,7C	0,7C
Discharge			
Discharge cut off voltage	21,6V	43,2V	83V
Recommended discharge current	0,5C	0.7C	0,7C
Maximum discharge current (30sec)	0,7C	1C	1,5C
Operating specifications			
Life cycle at 80% capacity	<4000 (20 a 40°C)		
Recommeded operating temperature	-20 a 55°C		
Charging temperature	0 a 55°C		
Discharging temperature	-20 a 55°C		
Configuration and security			
Protection rating IP	IP65		
Communication	CAN BUS		
Battery management system (BMS)	BMS		
Parallelization system	≤16 modules		
GPRS system	Optional		
Smart mode	Gateway		
Dummy mode (without Gateway)	Yes		
Monitoring and Warranty			
Internal parts warranty	5 years / 4.000 cycles with monitoring system or 2 years without monitoring system		
External parts warranty	1 year		
Compliance and Regulations			
Electromagnetic compatibility (EMC) 2014/30/UE			
Low voltaje Directive 2014/35/EU			
UNE-EN 62619:2022 (ES-TRIN)			
IEC 62620:2015 (ES-TRIN)			
Regulation UE 2023/1542			
RoHS 2011/65/EU			
UN 38.3			
*Subject to tolerances			
**Subject to tolerances			

