

## Lead Crystal

### Designed for stationary and cyclical applications

LEAD CRYSTAL® batteries are specially designed for stationary and cyclical applications.

### Optimal performance in buoys

These batteries are suitable for Aids to navigation, because they admit deep discharges, can be installed in any position, and do not emit gases, not being altered their operation when they are installed on buoys. LEAD CRYSTAL® batteries offered by Mediterraneo Señales Marítimas S.L.L. are composed by lead and liquid acid plates SiO<sub>2</sub> as electrolyte which replace sulfuric acid in traditional lead acid batteries.

### Minimum discharge rate

Thanks to the minimum discharge rate, these batteries provide a high storage autonomy, without need of charge in two years.



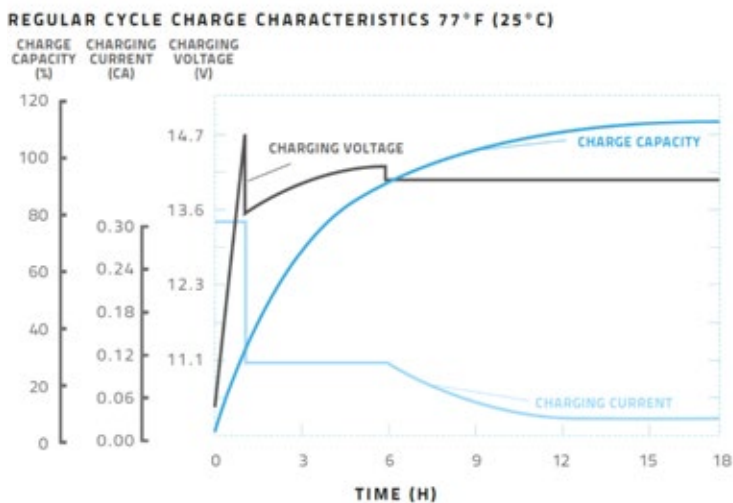
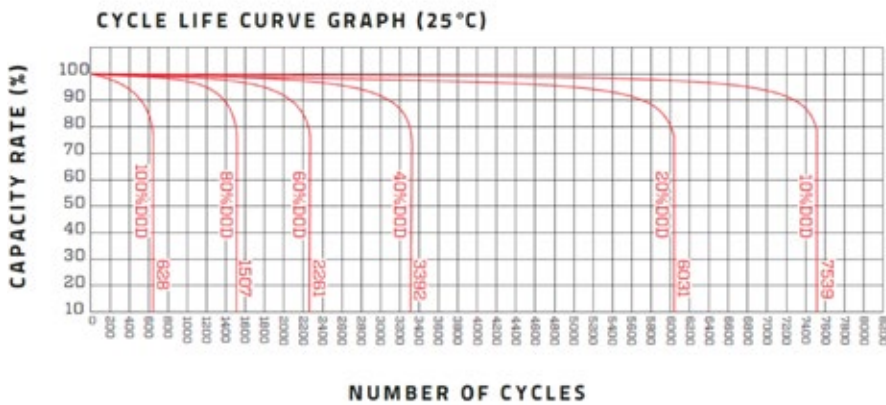
## FEATURES

- Battery sealed with a new type of electrolyte: SiO<sub>2</sub> non-corrosive acid.
- Non-toxic technology, that ease the ions exchange and avoid humidity losses, sulphation of plates and loss of materials.
- Hermetic battery, free-maintenance.
- It produces a combined reaction which do not allow hydrogen and oxygen leak and prevent spills, so it can be installed in any position except face down.
- Charge and discharge cycles higher than a liquid lead or gel battery. Allows between 2000 and 3100 effective cycles and up to 6400 cycles in 10% of discharge of the total capacity (compared to the traditional batteries which allows 300 and 400 cycles).
- Extremely low discharge rate. It allows its storage without use up to 2 years, and still would be 80% of its nominal capacity.
- Sealed battery. Intrinsic characteristic of its crystal technology of not containing liquids or producing any kind of gases.
- Superior capacity of energy storage.
- Suitable use for stationary and cyclical applications, covering maritime sector needs perfectly.

# LEAD CRYSTAL

## Technical specifications

Model	Nominal voltage (V)	Capacity 120h (Ah) C <sub>120</sub>	Total Height (mm) up to terminals	Height (mm)	Length (mm)	Width (mm)	Weight (Kg)	Maximum output current (A) - a 25°
LEAD CRYSTAL 12/14	12 V	16.9 Ah	104 mm	98 mm	151 mm	99 mm	4.35 kg	120 A
LEAD CRYSTAL 12/28	12 V	33.6 Ah	125 mm	125 mm	176 mm	166 mm	9 kg	280 A
LEAD CRYSTAL 12/40	12 V	48 Ah	172 mm	172 mm	198 mm	166 mm	13 kg	400 A
LEAD CRYSTAL 12/65	12 V	78 Ah	175 mm	175 mm	348 mm	167 mm	21 kg	650 A
LEAD CRYSTAL 12/90	12 V	108 Ah	240 mm	206 mm	306 mm	174 mm	28 kg	900 A
LEAD CRYSTAL 12/120	12 V	144 Ah	234 mm	211 mm	408 mm	172 mm	36.5 kg	1200 A
LEAD CRYSTAL 12/150	12 V	180 Ah	240 mm	215 mm	530 mm	205 mm	45 kg	1500 A
LEAD CRYSTAL 12/200	12 V	240 Ah	223 mm	219 mm	522 mm	240 mm	64 kg	2000 A
LEAD CRYSTAL 2/500	2 V	600 Ah	335 mm	330 mm	244 mm	175 mm	31.5 kg	5000 A
LEAD CRYSTAL 2/1000	2 V	1200 Ah	340 mm	330 mm	475 mm	175 mm	61 kg	10000 A



! Specifications subject to change without previous notice.

