

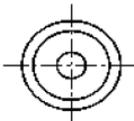
## Product Datasheet LSA-2000AAS

Specifications (Typical values for cells stored for one year at 20°C)		
Chemistry	Nickel Metal Hydride	
Nominal voltage	1.2 V	
Typical capacity	2000 mAh	
Minimum capacity	1900 mAh	
Standard charge	200 mA x 16 hrs	
Rapid charge	2000 mA (controlled by at least 3 of following methods simultaneously) -Delta V = 0-5mV/Cell (controlling voltage-decreasing while charging) DT/dt = 0.8-1 deg. Celsius/min (controlling surface temperature increment) TCO = 45-50 deg. Celsius (controlling battery surface temperature) 63 mins (controlling charging time at constant current)	
Discharge end-voltage	1.0 V	
Max. constant discharge current	3800 mA (at 20 °C)	
Ambient temperature range (Humidity: 65±10%)	Standard charge: 0 to 40°C Rapid charge: 10°C to 35°C Discharge: -18°C to 55°C	
Storage temperature range (Humidity: 65±10%)	Within 12 months: -20°C to 35°C Within 3 months: -20°C to 45°C Within 1 month: -20°C to 55°C	
Dimensions	Diameter: 14.5mm +0/-0.3mm Height: 50.5mm Max	
Weight	Appr. 28 g	
Impedance (1000Hz)	Typ. 28.0 mΩ	
Ready to use	Batteries are delivered in a 90% charged state	
Capacity retention	180 days	80%* after standard charged battery at 20°C±2, then discharge at 400mA to 0.9V/cell, measure capacity
	360 days	75%* after standard charged battery at 20°C±2, then discharge at 400mA to 0.9V/cell, measure capacity

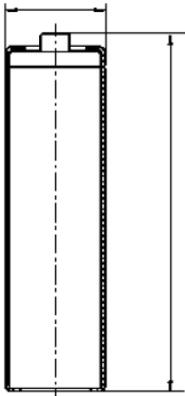
\*if the ambient temperature is changes, the data may be different from the above value

### Important information:

This datasheet contains typical information specific to products manufactured at the time of its publication and does not constitute a guarantee or warranty with respect to any cells and batteries. Cell/Battery performance and service life depend on the operating temperature, storage conditions, cut-off voltage and load applied in a specific application. It is the responsibility of each user to ensure that each application is adequately designed in terms of safety and usage conditions and is in conformance with existing standards and requirements. All specifications are subject to change without notice.

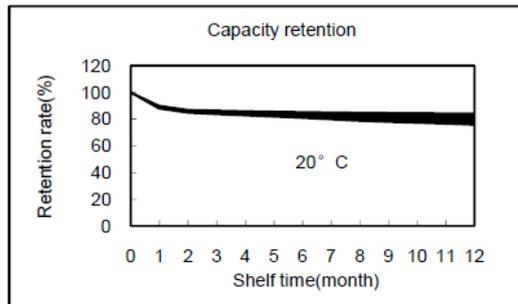


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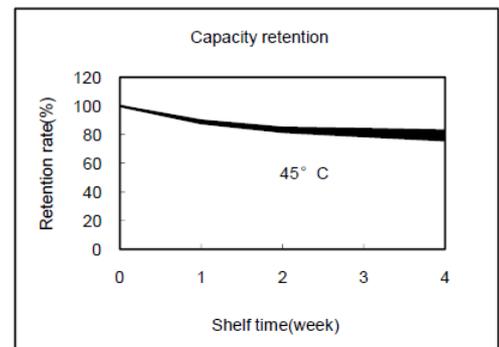


MAX. 50.5

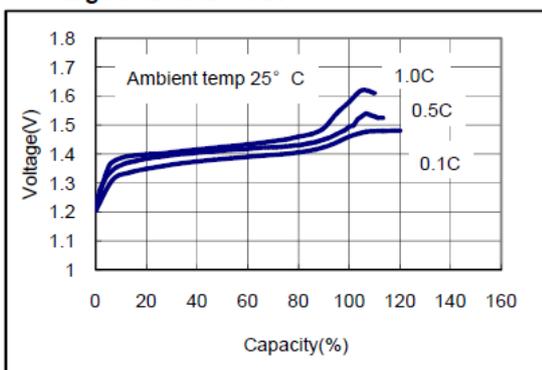
### Capacity retention characteristics



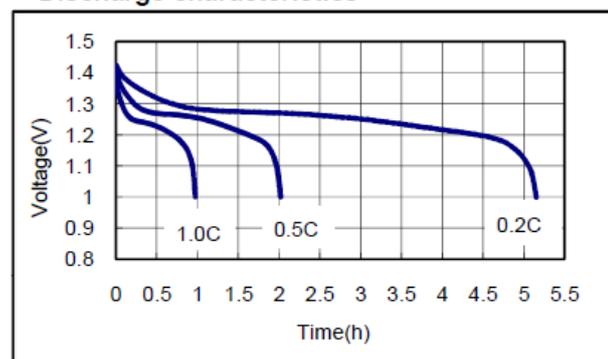
### Capacity retention characteristics



### Charge characteristics



### Discharge characteristics



### Cautions:

1. We recommend to use Leclanché specified Ni-MH battery charger equipped with rapid charge control in case if quick charge is necessary.
2. Please recharge the battery before using
3. Charge/Discharge current should not exceed the current stipulated by Leclanché SA
4. The end voltage of the battery is 1.0V/Cell, do not over-discharge the battery, or it will damage the performance of battery.
5. If battery will be stored more than 3 months, we suggest charging the battery once every 3 months. The battery should charge 30-50% before storage.
6. Do not reverse-charge the battery
7. Do not immerse the battery into water or into any other liquids.
8. Do not disassemble batteries into fire.
9. Do not solder any lead wires directly onto the batteries
10. Make sure terminals are correctly positioned when charging.
11. Trickle charge brand new batteries or batteries being stored for a long time before using
12. Keep the batteries out of reach children; see a doctor when any accidents happen.
13. Do not touch overheated batteries; recharge the battery when temperature returns to normal.
14. Battery will heat after using, please put the battery on a ventilated place to make it cool before charge it again. Avoid direct sunshine.
15. Do not mix different size of batteries; do not mix Leclanché battery with other brand batteries
16. When using the battery at too low temperature, experience deep discharge, and/or over-discharge, and/or over-charge, this will decrease the cycle life of batteries, and increase the internal cell resistance.
17. Do not short-circuit batteries, or it will cause permanent damage
18. Storage with load is forbidden. This will cause irreversible battery capacity lose loaded for a longer time
19. Do not rip off the sleeve. Do not mess up the cell while in packing; avoid strong impact and high temperature.