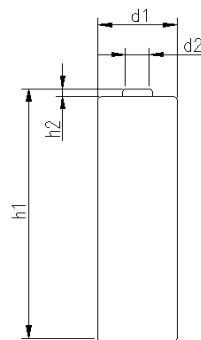


cell chemistry:		Li-Ion (LiFePO ₄)
cell size:		AA (14500)
cell type:		round cell
Conditions		
nominal voltage:	3.2 V	
capacity		
nominal:	500 mAh	discharge at 0.2C
minimum:	450 mAh	discharge at 0.2C
	400 mAh	discharge at 1C
		ta: 20°C; EV(Discharge End Voltage): 2.75V
discharge		
max. continuous discharge current:	250 mA	ta: 0....45°C
max. pulse discharge current:	500 mA	10sec
important: avoid cell temperature above 60°C		
discharge end voltage:	≥ 2.0 V	(recommended)
external charge (at +/- poles)		
charging method:		CC - CV (Constant Current - Constant Voltage)
charge current:	100 mA	at standard charge (0.2C)
max. charge current:	250 mA	at fast charge (0.5C)
charge end voltage:	3.65 V	± 50mV
charge cut off by time:	6 h	at standard charge
	1.5...2.0 h	at fast charge
by current drop:	25 mA	end current - cut off
internal resistance:	≤ 120 mΩ	at 1kHz, sine wave measurement according to IEC 896-2
energy:	1.6 Wh	
protection functions		
overcharge cut off voltage:	3.7 V	± 0.05V
deep disch.cut off voltage:	2.1 V	± 0.1V
overload cut off current:	4.0 A	± 0.5A
life time expectance		
(C>70% of min. capacity)	≥ 1000 cycles	at 0.2C charge/discharge rate
self discharge:	≤ 2 %/month	at 20°C
	≤ 5 %/month	at 30°C
	≤ 10 %/month	at 40°C
ambient temperature range:		
	0...45 °C	charge
	- 20...60 °C	discharge
	0...30 °C	storage max. 1 year
	- 20...35 °C	storage max. 3 months
recommended SOC: (SOC = state of charge)	30...50 %	for long-time storage
mechanical specifications		
cell dimensions (incl. sleeve)		
diameter d1:	14.3 - 0.5 mm	
diameter d2:	5.0 - 1 mm	
height h1:	50.3 - 1 mm	
height h2:	1.5 ± 0.5 mm	
weight:	18 ± 2 g	

Technical drawing of a round cell showing dimensions: d1 (diameter of the main body), d2 (diameter of the terminal), h1 (total height), and h2 (height of the terminal).



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	ANSMANN Specifications for model:	Protected 14500 Li-Ion Battery 3.2V 500mAh
	data sheet no. / part no.	1300-0021
	s.n.	704507
	author / date	TG / 18.03.2024

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice