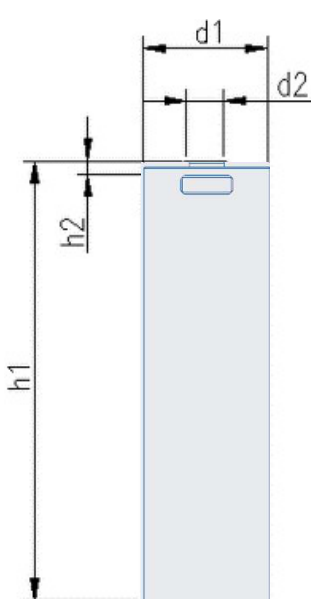


cell type:		Li-Ion	
cell size:		21700	
built-in cell:		EVE INR21700-50E	
Conditions			
nominal voltage:	3.6 V		
capacity			
nominal:	5000 mAh	discharge at 0.2C	
minimum:	4900 mAh	discharge at 0.2C	
	4500 mAh	discharge at 1C	
ta: 20°C; EV(Discharge End Voltage): 2.5V			
discharge			
max. discharge currents:	10 A	continuous	ta: 0....45°C
	14 A	short-term	important: avoid cell temperature above 60°C
discharge end voltage:	≥ 2.75 V	(recommended)	
external charge (at +/- poles)			
charging method:	CC - CV (Constant Current - Constant Voltage)		
charge currents:	1000 mA	standard charge	
	2500 mA	rapid charge	
maximal:	5000 mA	fast charge	
charge end voltage:	4.2 V	± 0.05V	
charge cut-off:	50...100 mA	(0.01C...0.02C)	
Charge time:	5.5...6 h	at standard charge	
	2.5...3 h	rapid charge	
	1.25...1.5 h	at fast charge	
charge via type-C connector (with 2A USB charger)			
supply voltage:	5 V	± 0.25V	
charge current:	2000 mA	± 200mA	
charge time:	3...3.5 h		
internal resistance:	≤ 50 mΩ	at 1kHz, sine wave measurement according to IEC 896-2	
energy:	18 Wh		
protection functions			
overcharge cut off voltage:	4.3 V	± 0.05V	
deep disch.cut off voltage:	2.55 V	± 0.15V	
overload cut off current:	14...21 A		
LED charge indicator (w. type-C charge)	lights red	during charge	
	lights green	end of charge; battery fully charged	
life time expectance (C>80% of initial capacity)			
	≥ 300 cycles	at 0.5C charge / 1C 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	
	- 10...25 °C	storage max. 6months	
	- 10...35 °C	storage max. 3months	
	- 10...50 °C	storage max. 1month	
recommended SOC: (SOC = state of charge)	30...50 %	for long-time storage	
mechanical specifications			
cell dimensions (incl. sleeve)			
diameter d1:	21.6 ± 0.2	mm	
diameter d2:	6 ± 0.2	mm	
height h1:	76.5 ± 0.3	mm	
height h2:	1.0 ± 0.2	mm	
weight:	75 ± 3	g	



ANSMANN Specifications for model:	Protected 21700 Li-Ion Battery
data sheet no. / part no.	3.6V 5000mAh w. Type- C Charge
s. n.	704507
author / date	TG / 22.05.2025