



		Conditions	
cell type:	Li-Ion (LiCoO ₂)		
cell size:	18650		
nominal voltage:	7.4 V		
capacity			
nominal:	2250 mAh	discharge at 0.2C	
minimum:	2250 mAh	discharge at 0.2C	
	1800 mAh	discharge at 1C	
		ta: 20°C; EV(Discharge End Voltage): 2.5.5V	
discharge			
max. continuous discharge current:	3000 mA	ta: 0...45°C	
		important: avoid cell temperature above 60°C	
discharge end voltage:	≥5.5 V	(recommended)	
		important: avoid long time deep discharge	
charge			
charging method:	CC - CV (Constant Current - Constant Voltage)		
initial charge current:	1125 mA	at standard charge	
	2250 mA	at rapid charge	
charge end voltage:	8.4 V	± 50mV	
charge cut off			
by time:	3,5 h	at standard charge	
	2,5 h	at rapid charge	
by current drop:	22 mA	(0.01C)	
internal resistance:	≤ 70 mOhms	at 1kHz, sine wave measurement according to IEC 896-2	
safety board protection functions			
overcharge cut off voltage:	8.6 V	± 25mV	
deep disch.cut off voltage:	4.8 V	± 50mV	
discharge cut off current:	13 A	± 3A	
short circuit protection:	yes		
life time expectance (C>70% of min. capacity)	≥ 300 cycles	at 0.5C charge/discharge rate	
self discharge:	≤ 5 %/month	at 20°C	
	≤ 10 %/month	at 30°C	
	≤ 20 %/month	at 40°C	
ambient temperature range:	0...45 °C	charge	
	0...60 °C	discharge	
	- 20...25 °C	storage max. 1year	
	- 20...45 °C	storage max. 3months	
preferred charge state for long time storage:	30...50%		
mechanical specifications:			
cell dimensions (incl. sleeve)			
width:	37 ± 1 mm		
length:	65 ± 2 mm		
height:	19 ± 1 mm		
weight:	approx. 100 g		
wire diameter:	AWG22		
wire length:	120mm	black red	

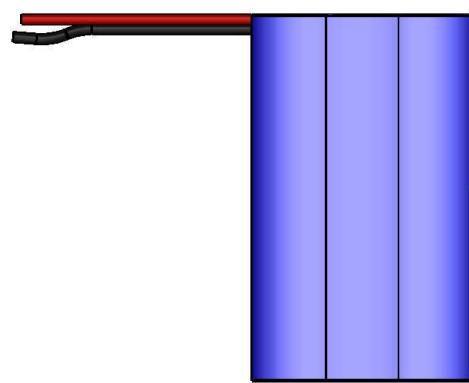
Label Design


AN-MANN
 Li-Ion Rechargeable 18650 2S1P
 Nominal voltage: 7.4V
 Max. charge voltage: 8.4V
 Nominal Capacity: 2250mAh
 Minimum Capacity: 2250mAh
 Recommended charge current: 1225mA
 Energy: 16.7Wh

Safety advice for Li-Ion batteries
 Do not crush, heat, incinerate, short circuit, dismantle or immerse in any liquid or it may vent or rupture. Follow charging instructions.
 Do not charge below 0°C
 Discharge -20°C to +60°C
 Tested and approved to UN38.3

part. no.: xxxx-xxxx 44/11



	ANSMANN Specifications for model:	Li - Ion Battery 7.4V 2250mAh with safety board inside
	data sheet no. / part no.	2447-3002
	Version no.	V0
	author / date	Eisenreich / 01.12.11