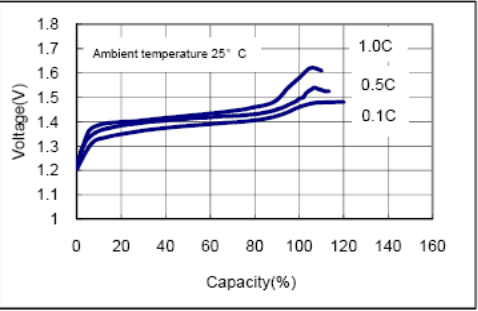


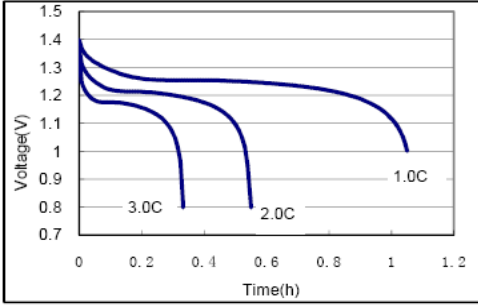
		Conditions	
<b>cell type:</b>	NiMH		
<b>cell size:</b>	C		
<b>nominal voltage:</b>	1.2 V		
<b>max. charge voltage:</b>	1.5 V	at standard charge (0.1C / 20°C)	
<b>capacity</b>			
nominal:	4500 mAh	discharge at 0.2C	
minimum:	4300 mAh	discharge at 0.2C	
	3870 mAh	discharge at 1C	
		1.0V end discharge voltage	
		ta: 20°C	
<b>max. continuous discharge current:</b>	13.5 A	ta: 0...45°C	
<b>charge</b>		current	time
standard charge:	450 mA	1250 mA	16hrs
quick charge:	1250 mA	2000 mA	4hrs
fast charge:	2000 mA		2.5hrs
recommended charge termination control parameters:	0...5 mV	- delta V	
	0.8...1 °C	temperature rise per minute	
	45...50 °C	TCO (temperature cut off)	
trickle charge current:	40...200 mA	(recommended)	
continuous overcharge: (less than 1 year)	≤ 400 mA	no conspicuous deformation no leakage	
<b>internal resistance:</b> (impedance)	≤ 6 mΩ	at 1KHz battery fully charged	
<b>life expectancy:</b>	≥ 500 cycles	acc. IEC standard	
<b>self discharge</b>			
charge retention: (at ≤ 20°C ambient)	≥ 85 %	after 6 months storage	
	≥ 80 %	after 12 months storage	
<b>initial capacity:</b>	≥ 3000 mAh	within 30 days after delivery discharge at 0.2C	
<b>ambient temperature range:</b>	0...45 °C	standard charge	
	10...40 °C	fast charge	
	- 20...55 °C	discharge	
	- 20...50 °C	storage (≤3months)	
	- 20...40 °C	storage (≤6months)	
	- 20...30 °C	storage (≤24months)	

### Diagrams

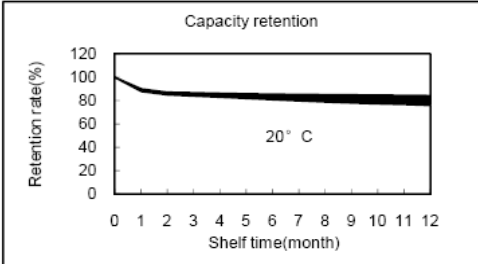
#### -Charge characteristics



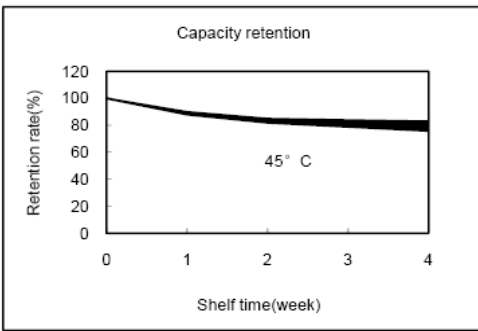
#### -Discharge characteristics



#### -Capacity retention characteristics



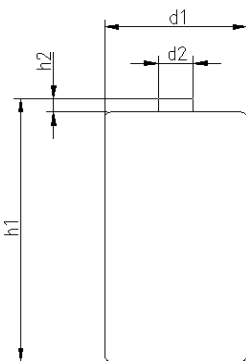
#### -Capacity retention characteristics



QCT1: 20/4100/10  
QCT2: 30/3800/15

#### mechanical specifications

cell dimensions			
diameter d1:		25.8	- 0.8 mm
diameter d2:	approx.	11.0	mm
height h1:		50.0	- 2.0 mm
height h2:		0.0	- 0.3 mm
weight:		80	± 5 g



	<b>ANSMANN Specifications for model:</b>	<b>C4500mAh FLAT TOP</b>
		<b>low self discharge bulk package</b>
	data sheet no. / part no.	2310-3001
	supplier no.	701344
	author / date	TG / 10.02.2014

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