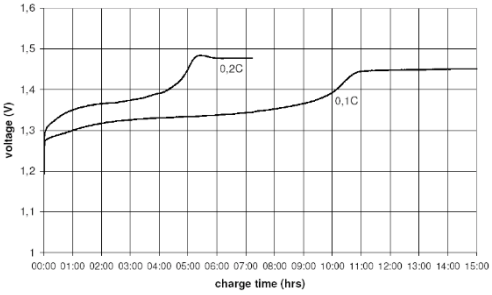
THE DATASHEET OF

1312-0038-XX

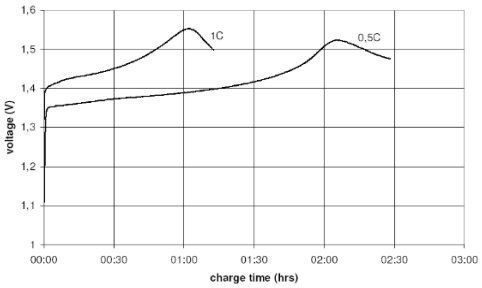
			Conditions
cell type:	NiMH		
cell size:	AA		
nominal voltage:	1.2	V	
max. charge voltage:	1.5	V	at standard charge (0.1C / 20°C)
capacity			
nominal:	1600	mAh	discharge at 0.2C
minimum:	1600	mAh	discharge at 0.2C
	1280	mAh	discharge at 1C
			1.0V end discharge voltage
			ta: 20°C
max. continuous discharge current:	3200	mA	ta: 0....45°C
charge	current		time
standard charge:	160	mA	15....17hrs
quick charge:	800	mA	2.33hrs
fast charge:	1600	mA	1.2hrs
recommended charge termination control parameters:	0…5	mV	- ΔV (-deltaV)
	0.8...1	°C	temperature rise per minute
	45...50	°C	TCO (temperature cut off)
trickle charge current:	10…30	mA	(recommended)
continuous overcharge: (less than 1 year)	≤ 80	mA	no conspicuous deformation no leakage
internal resistance: (impedance)	≤ 35	mΩ	at 1KHz battery fully charged
life expectance:	≥ 500	cycles	acc. IEC standard
self discharge			
charge retention:	≥ 75	%	after 12 months storage at 20°C
initial capacity:	≥ 900	mAh	within 30 days after delivery discharge at 0.2C
ambient temperature range:	0...40	°C	standard charge
	10…35	°C	fast charge
	-10...65	°C	discharge
	-20...50	°C	storage (≤1months)
	-20...45	°C	storage (≤6months)
	-20...35	°C	storage (≤12months)

Diagrams

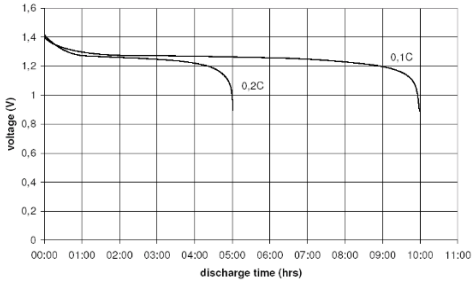
standard charge



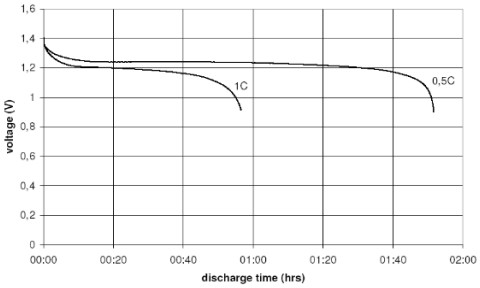
fast charge



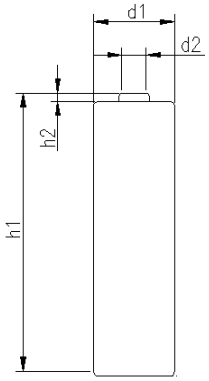
low rate discharge



high rate discharge



QCT1:	20/1250/45		
QCT2:	30/1150/50		
mechanical specifications			
cell dimensions			
diameter d1:	14.4	- 0.7	mm
diameter d2: max.	5.5		mm
height h1:	50.5	- 0.5	mm
height h2: min.	1.2		mm
weight:	23	±1	g



ANSMANN®	**ANSMANN Specifications for model:**	**NiMH Battery AA - 1600mAh low self discharge**
	data sheet no. / part no.	1302-0021
	s.n.	705294
	author / date	Cweiland / 11.09.2023

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

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