

nominal voltage	1.2 V	conditions	
max. charge voltage	1.5 V	at standard charge (0.1C/20)	
capacity			
nominal	3700mAh	discharge at 0.2C	
minimal	>3400 mAh	discharge at 30A	
typical	3400mAh	discharge at 30A	
	3600mAh	0.8V end discharge voltage	
		ambient temperature 20	
max. discharge current	30A	ambient temperature 20...50	
MPV	>=1.12V	discharge at 30A	
charge		charge time	
standard charge	370 mA	15hrs at 20	
quick charge	5 A	50minutes for empty battery	
recommended charge	-dV	0...5 mV	
termination control	dT/dt	0.8...1 per min	
parameters	TCO	40...45	
trickle charge current	111...185 mA	(recommended)	
continuous overcharge (less than 1 year)	<370 mA	no conspicuous deformation	
		no leakage	
internal resistance	Average 5 mOhms at 1000Hz (4~6mOhms)	battery fully charged	
life expectancy	>500 cycles	IEC61951-2 standard	
Charge retention	>2590mAh	discharge at 0.2C after storage 28 days at 20+/-5	
ambient temperature range	0...45 10...45 -20...50 -10...45 -10...35	standard charge fast charge discharge storage less than 3 months storage less than 1 year	

Standard Charge

The graph shows voltage (V) on the y-axis (1.0 to 1.6) and charge time (hrs) on the x-axis (0 to 15). Two curves are shown: a blue curve for 0.1C and a pink curve for 0.3C. Both curves start at 1.2V and rise to approximately 1.45V. The 0.3C curve reaches 1.45V faster, around 4 hours, while the 0.1C curve reaches it around 12 hours.

Fast Charge (Charge Control required)

The graph shows voltage (V) on the y-axis (1.0 to 1.6) and charge time (hrs) on the x-axis (0.0 to 3.0). Two curves are shown: a blue curve for 0.5C and a pink curve for 1C. Both curves start at 1.2V and rise to approximately 1.45V. The 1C curve reaches 1.45V faster, around 0.5 hours, while the 0.5C curve reaches it around 1.5 hours.

Low Rate Discharge

The graph shows voltage (V) on the y-axis (0.0 to 1.6) and discharge time (mins) on the x-axis (0 to 70). Three curves are shown: a blue curve for 1C, a pink curve for 2C, and a brown curve for 3C. All curves start at 1.4V. The 1C curve maintains 1.2V for about 60 minutes. The 2C curve maintains 1.2V for about 30 minutes. The 3C curve maintains 1.2V for about 15 minutes.

MPV(V) vs Discharge Rate

The graph shows MPV(V) on the y-axis (1.05 to 1.25) and Discharge Rate on the x-axis (1C, 5C, 10C). A blue line shows a linear decrease in MPV as the discharge rate increases. At 1C, MPV is approximately 1.25V. At 5C, MPV is approximately 1.15V. At 10C, MPV is approximately 1.08V.

The diagram shows a cylindrical battery cell with a sleeve. Dimension d1 is the diameter of the sleeve, d2 is the diameter of the cell body, and h1 is the height of the cell body.

mechanical specifications
cell dimensions (with sleeve)
diameter d1 23.0-0.5 mm
diameter d2 9.1+/-0.5 mm
height h1 44.3-0.5 mm
weight approx. 64.5 g

DATA SHEET FOR	Ni-MH SC 3700mAh
VAPEXTECH DRAWING	VTE3700SC
DRAWN BY / DATE	Herry Li/2005/10/25

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