

<b>nominal voltage</b>	1.2 V	conditions	
<b>max. charge voltage</b>	1.5 V	at standard charge (0.1C/20°C)	
<b>capacity</b>			
nominal	3000mAh	discharge at 0.2C	
	>2700 mAh	discharge at 3C	
minimal	2900	discharge at 0.2C	
		1.0V end discharge voltage	
		ambient temperature 20°C	
<b>max. discharge current</b>	30A	ambient temperature	
		20...50°C	
<b>charge</b>		charge current	charge time
standard charge	150 mA		15hrs at 20°C
quick charge	3000 mA		1.1hrs for empty battery
recommended charge	-dV		0...10 mV
termination control	dT/dt		0.8...1°C per min
parameters	TCO		50...55°C
trickle charge current	90...150 mA	(recommended)	
continuous overcharge (less than 1 year)	<150 mA	no conspicuous deformation no leakage	
<b>internal resistance</b>	<8 mOhms	at 1000Hz battery fully charged	
<b>life expectancy</b>	>500 cycles	IEC standard	
<b>Charge retention</b>	>2100mAh	discharge at 0.2C after storage 28 days at 20+/-5°C	
<b>ambient temperature range</b>	0...45°C 10...45°C -20...50°C -10...45°C -10...35°C	standard charge fast charge discharge storage less than 3 months storage less than 1 year	

  

**Standard Charge**

This graph plots voltage (V) on the y-axis (1.0 to 1.6) against 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 show a rapid initial voltage rise followed by a plateau. The 0.3C curve reaches a higher voltage plateau (~1.5V) faster than the 0.1C curve (~1.45V).

**Fast Charge (Charge Control required)**

This graph plots voltage (V) on the y-axis (1.0 to 1.6) against 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 show a rapid initial voltage rise followed by a plateau. The 1C curve reaches a higher voltage plateau (~1.55V) faster than the 0.5C curve (~1.5V).

**Low Rate Discharge**

This graph plots voltage (V) on the y-axis (0.0 to 1.6) against 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 the highest voltage for the longest duration, while the 3C curve drops most rapidly.

**Discharge Rate**

This graph plots discharge time (mins) on the y-axis (0 to 120) against discharge rate (C) on the x-axis (0 to 100). The curve shows that as the discharge rate increases, the total discharge time decreases significantly, following a non-linear downward trend.

  

A technical drawing of a cylindrical battery cell. It shows two diameters: d1 for the outer diameter (including the sleeve) and d2 for the inner diameter. A vertical dimension line indicates the height h1.

**mechanical specifications**  
cell dimensions (with sleeve)  
diameter d1 22.2+/-0.2 mm  
diameter d2 9.1+/-0.5 mm  
height h1 41.8+/-0.5 mm  
weight approx. 56 g

DATA SHEET FOR	Ni-MH SC
VAPEXTECH DRAWING	VTE3000SC
DRAWN BY / DATE	Herry Li/2003/9/25

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