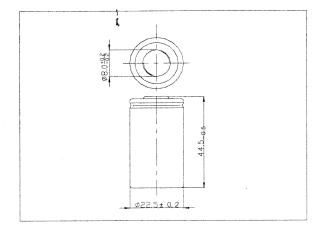
TYPE: SC3300mAh (Flat)

Specifications

Nominal voltage		1.2V		
		:	0.2C Discharge	30A Discharge
Capacit	y	Minimum	3250mAh	2800mAh
•		Typical	3350mAh	2900mAh
			mm	inch
Dimensi ns	10	Diameter	22.5 ^{±0.2}	0.89 ^{±0.008}
***5		Height	44.5 ^{-0.5}	1.75 ^{-0.020}
Weight(Approximat ely)		Grams	Ounces	
		65	2.29	
Internal Impedance At 1000 Hz		5mΩ((Max)	
		(After Charge)		
Claran	S	Standard	330mA(0.	1C)×15hrs
Charge		Rapid	3300mA(1.0C)×1.13	
a	ge		°C	°F
Ambient temperature	Charge	Standard	0°C to 45°C	32°F to 113°F
nbic pera	C	Rapid	10°C to 40°C	50°F to 104°F
Al	Ε	Discharge	-20°C to 65°C	-4°F to 149°F
_			-20°C to 45°C	-4°F to 113°F

Dimensions(with tube)

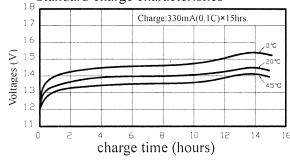
(mm)



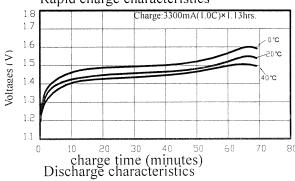
Note:

- 1. After charging at 0.1C for 15hou
- 2. Nominal capacity, rated at 0.2C 2
- 3. Average capacity, for reference or
- 4. Weight and internal impedance a for reference.

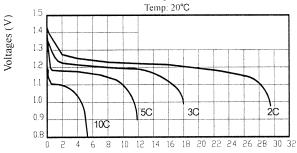
Typical characteristics Standard charge characteristics



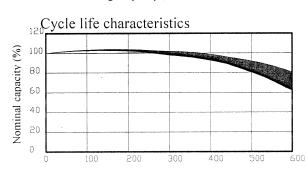
Rapid charge characteristics



Charge:3300mA(1.0C)×1.13hrs.



Discharge capacity (minutes)



Number of cycles life curve Charge retention curves of Ni-MH cylindrical cell

5. Standard according as IEC of test

cycle life.

1. PREFACE

The specification is suitable for the performance of NI-MH rechargeable battery produced by the DANTONA INDUSTRIES, INC..

2. MODEL

Ni-MH SC3300 (Flat) 1.2V

3. APPEARANCE

There shall be no such details as discoloration electrolyte leakage or no voltage.

4. NORMNAL SPECIFICATION

Description Model Size			Specification	
			Ni-MH SC3300 (Flat) 1.2V	
			SC- WAY LAND	

Dimension	Diameter (mm)		22.5± ^{0.2}	
	Height (mm)		44.5 ^{-0.5}	
Weight (g)		g)	Approx 65	
Normal Voltage (V)			1.2V	
			0.2C Discharge	30A Discharge
Capacity (mAh)	Minimum		3250mAh	2800mAh
	Typical		3350mAh	2900mAh
Monomer Internal Impedance(m Ω)			≤ 5 mΩ	
Classic	Standard		330mA(0.1C) x15 hrs	
Charge	Rapid		3300mA (1.0C) x1.13hrs	
Discharge Cut-off Voltage			1.0V	
Ambient	Charge	Standard	0°C-45°C	
Temperature		Rapid	10°C-40°C	
	Discharge		-20°C-65°C	

	Storage -20°C-45°C	
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5. CHARACTERICS

Unless other specified the standard range of atmospheric condition for marketing and is as follows:

Ambient temperature: 20°C±5°C

Relative Humidity: 65±20%

Atmospheric pressure: 960±100mbar

Voltmeter and ammeters to be used in test shall be of grade 0.5 over.

Test item		Condition	Specification	
	Standard	Charge at 330mA(0.1C) for 15 to 16 hours		
Charge	Rapid	Charge at 3300mA(1.0C) to −△ V=10mV/cell		
Standard discharge		At 660mA(0.2C) to 1.0V Note: Discharge to 1.0V		
Composity	Minimum	Standard charge/discharge	3250mAh	
Capacity	Typical	Standard charge/discharge	3350mAh	
Monomer internål resistance		After fully charged, rest one hour, measured at 1000Hz	$\leq 5 \text{m}\Omega$ (Charge after)	
Cycle life Self-discharge High temperature test Low temperature test. Short circuit test Drop test		Standard according as IEC 61436 4.4 of test cycle life	≥ 500 cycles	
		The charged battery is stored for 30 days at 20°C and the discharge time is measured at stand discharge.	≥ 180 minutes	
		h temperature test Stored at 40°C, 50°C, 60°C for charge and discharge. No leakage		
		Store at 0°C for 2hours then charge or discharge	No leakage	
		Short circuit after fully charged	No explode	
		Free fall on the concrete from 3 months after fully charged	No leakage No short -circuit	

6. PRECANTIONS TO ENSURE THE SAFETY ON BANDING BATTERY

We will not take on any responsibility for any trouble caused by the actions in the mishandling of the battery as mentioned below.

a) USE OF BATTERY FOR OTHER PURPOSES

Don't use batteries for appliance for which it was not intended. Difference is specification can lead to damage to the battery or appliance.

b) SHORT – SIRCUITING

Never short-circuit the batteries, that may damager appliances or you may be burned by the heat generated by the batteries.

c) THROWING BATTERY INTO FIRE OR WATER

Never throw battery into a fire. Batteries may exploded when disposed of in a fire. Never throw them into water since the battery function will be lost

d) SOLDERING

Never solder to a battery directly since its safety mechanism may be destroyed by the damage sustained on the safety vent inside the battery cap.

e) INSERTING THE BATTERY WITH THEIR POLARITIES REVERED

Never insert a battery with the positive and negative poles reversed, as this can cause the battery to swell or rupture.

f) OVERCHARGING AT HIGH CUREENTS AND REVERSE CHARGING

- i. Never reverse charge or overcharge with high current. Doing so causes rapid gas generation and increase gas pressure, thus causing batteries to swell or rupture.
- ii. Charging with an unspecified charge or specified charge that has been modifies can cause batteries to swell or rupture. Be sure to indicate this safety warning clearly in all operating instruction as a handling restricting for ensuring safety

g) INSTALLATION IN A SEALED APPLIANCE

Do not install batteries in a sealed that may run a risk of giving off gases. (oxygen, hydrogen)

And there is a dangerous of the batteries bursting or exploding due to the pressure ignition resource (such as motor switch).

h) DISASSEMBLY OR MUTILATION

Never disassemble batteries, as the batteries may be short-circuit or the strong alkaline electrolyte inside may hurt skin and cloths, the alkaline electrolyte inside may catch fire by reaction with air, too.0

i) USING OLD AND NEW BATTERIES TOGHETHER

i. Avoiding using old and new batteries together, also avoid using these batteries with ordinary dry cell, NI-MH, battery or with another manufacture's battery.

Differences in various characteristics value, etc., can cause damage to batteries or the production.

Append:

IEC-61436@ CEI:1998

4.4 Endurance in cycles

Before the endurance in cycles test, the cell shall be discharged at $0.2 \text{ C}_5\text{A}$ to a final voltage of 1.0V.

The following endurance test shall then be carried out, irrespective of cell designation, in an ambient temperature of 20°C±5°C. Charge and discharge shall be carried out at constant current throughout, using the conditions specified in table 5. Precautions shall be taken to prevent the cell-case temperature from rising above 35°C during the test, by providing a forced air draught if necessary.

NOTE-Actual cell temperature, not the ambient temperature, determines cell performance.

Table 5-Endurance in cycles

Cycle number	Charge	Stand in Charged condition	Discharge
1	0.1C ₅ A for 16 h	None	$0.25 \text{ C}_5\text{A} \text{ for 2 h 20 min}^2$
2 to 48	0.25 C ₅ A for 3 h 10 min	None	$0.25 \text{ C}_5\text{A} \text{ for 2 h 20 min}^2$
49	0.25 C ₅ A for 3 h 10 min	None	$0.25 \text{ C}_5 \text{A to } 1.0 \text{V}$
50	0.1 C ₅ A for 16 h	1h to 4h	$0.2C_5A \text{ to } 1.0V^{1)}$

- It is permissible to allow sufficient open-circuit rest time after the completion of discharge at cycle 50,so as to start cycle 51 at an exact two-week internal. A similar procedure may be adopted at cycles 100,150,200,250,300,350,400 and 450.
- If cell discharge voltage drops below 1.0V, discharge may be discontinued.

Cycles 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes less than 3h at this stage, A further cycle as specified for cycle 50 shall be carried out.

The endurance test is considered complete when two such successive cycles give a discharge duration less than 3h. The number of cycles obtained when the test is completed shall be not less than 500.