

Panasonic NCR18650B 3400mAh (Green)



Official specifications:

- Real capacity: NCR 3400mAh
- Size: 18mmx65mm
- Netweight: 45g
- $\leq 45\text{m}\Omega$
- Cut off at 2.75V, full charge 4.35V (Wrong value)

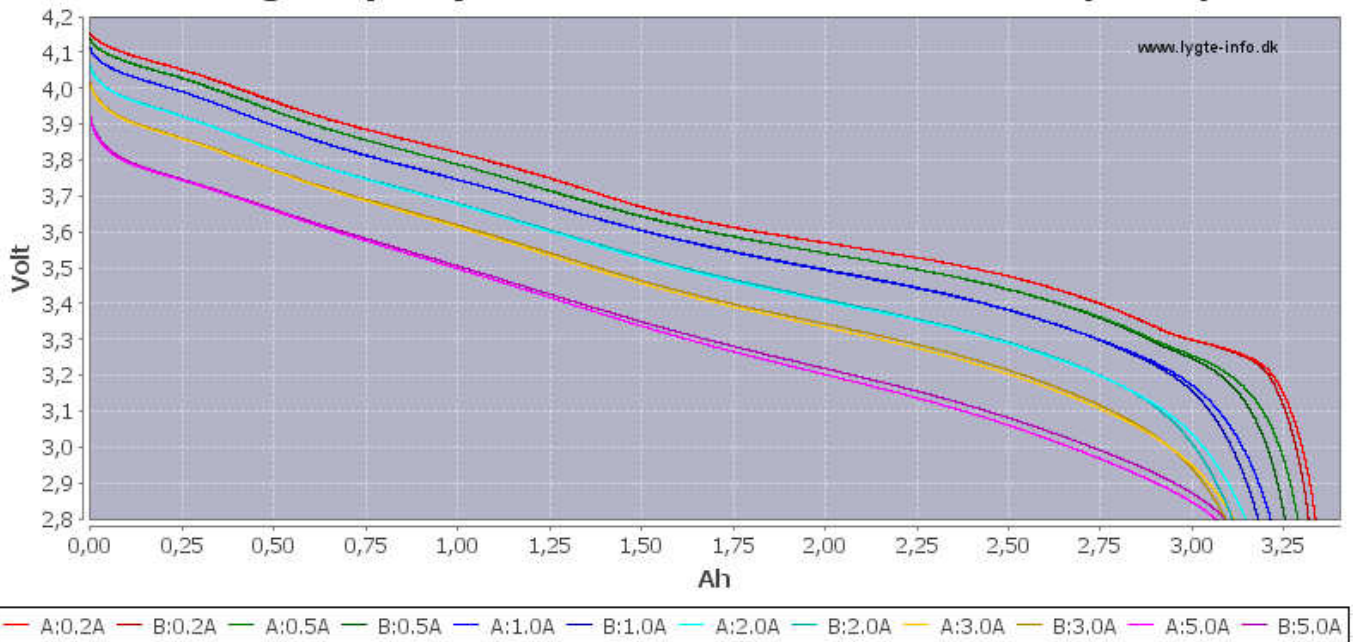
Name	Panasonic NCR18650B 3400mAh (Green)					
Cell	Panasonic NCR18650B					
Supplier	cn qualti goods				Date:	6-2012
Size	Weight:	45.9 g	Length:	65 mm	Diameter:	18.3 mm
Info	Top:	flat	Bottom:	metal	Rated A:	
Test condition	Charge voltage:		4.2	Termination current:		0,1
Test current (A)	0,2	0,5	1	2	3	5
Measured capacity (Ah)	3,326	3,270	3,197	3,128	3,103	3,080
Measured energy (Wh)	12,142	11,856	11,472	11,014	10,727	10,296
PCB protection trip current (A)	NA					
Calculated internal resistance (ohm)	0,11					

This is the latest cells from Panasonic with the highest capacity.

The cell used can be discharged down to 2.5 volt, in my test I only discharges to 2.8 volt, i.e. I do not measure the full capacity. But then, not all lights will be able to use the full capacity.

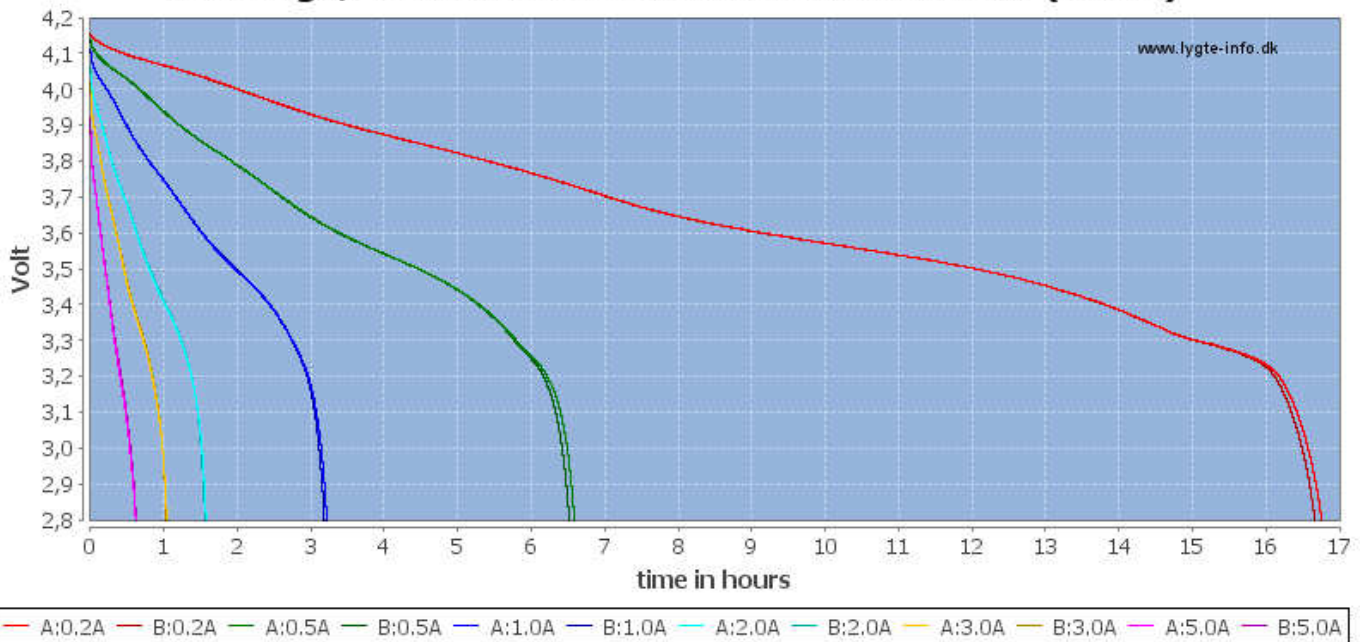


Discharge, capacity: Panasonic NCR18650B 3400mAh (Green)

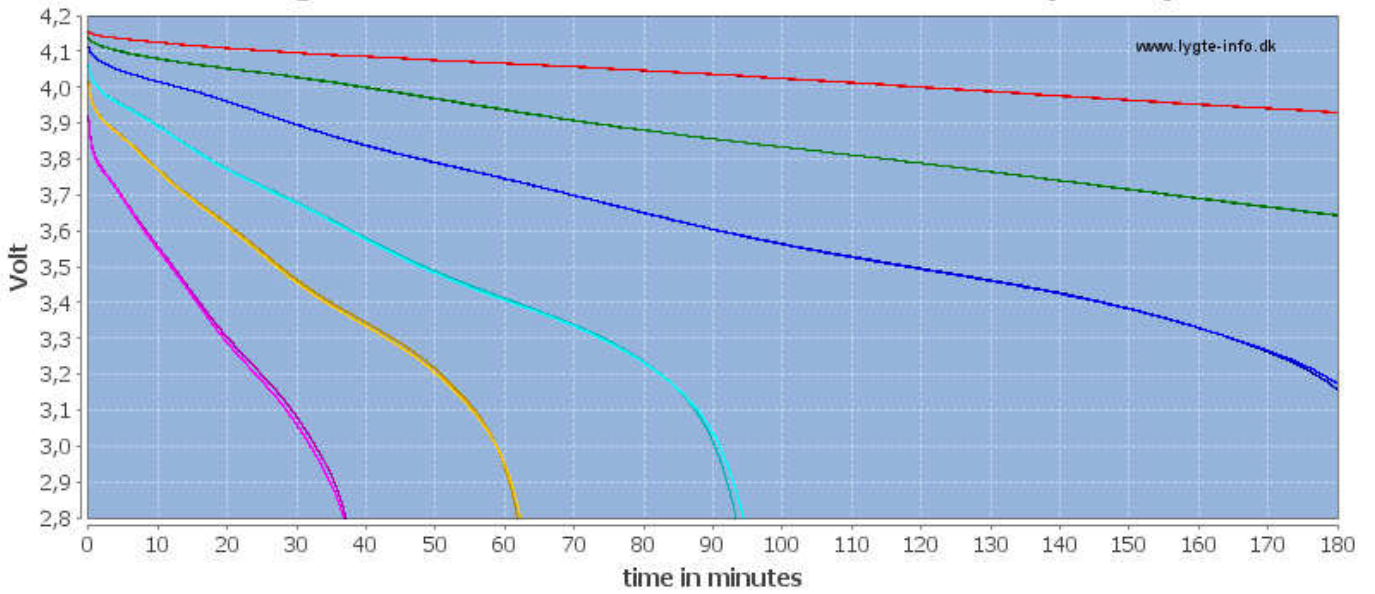


These batteries are good at both low and higher current.

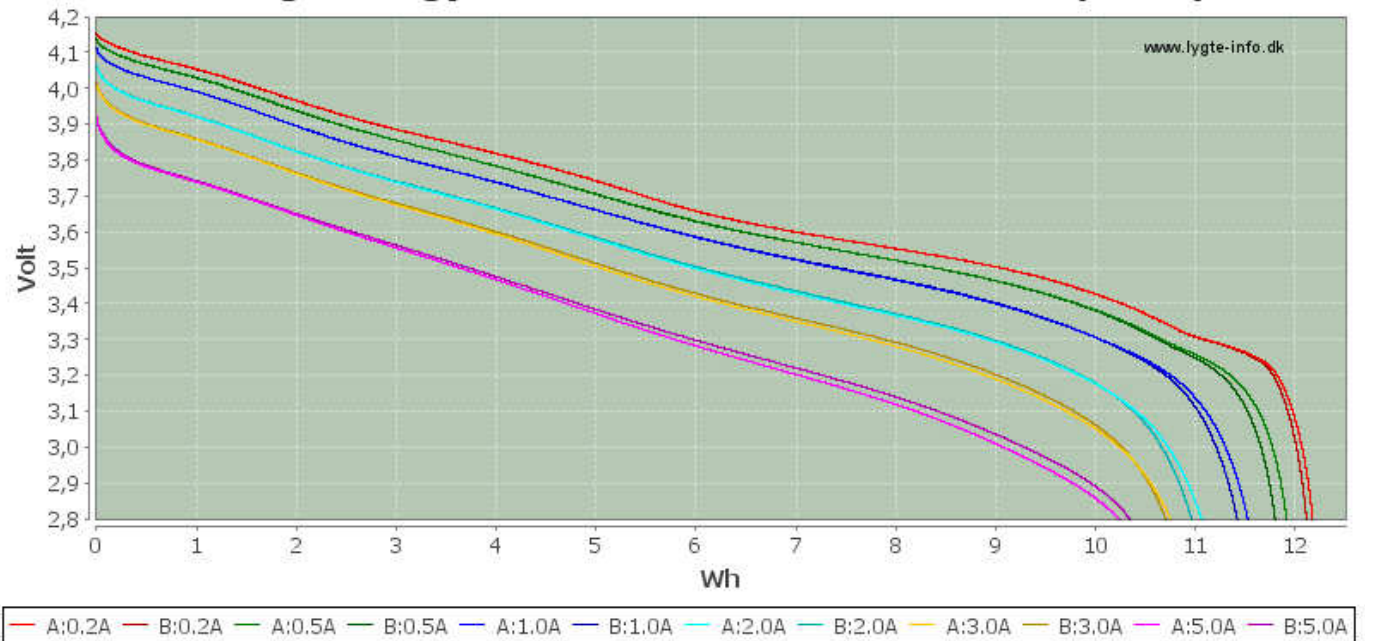
Discharge, time: Panasonic NCR18650B 3400mAh (Green)



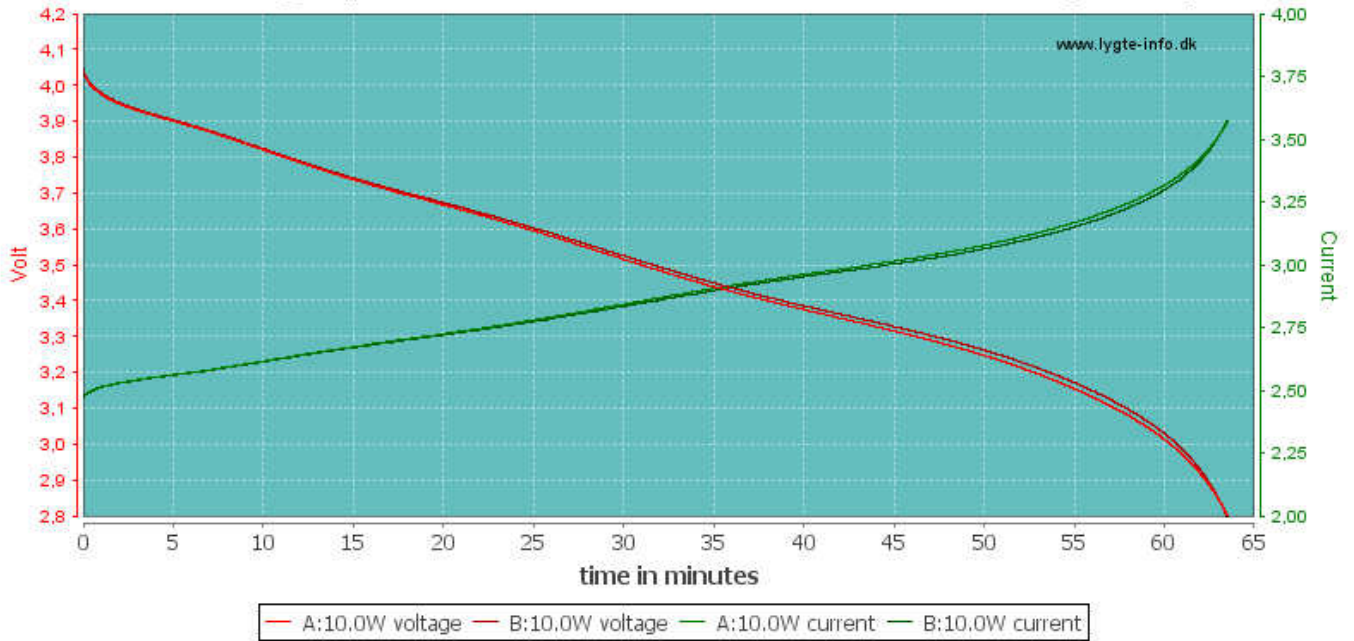
Discharge, time: Panasonic NCR18650B 3400mAh (Green)



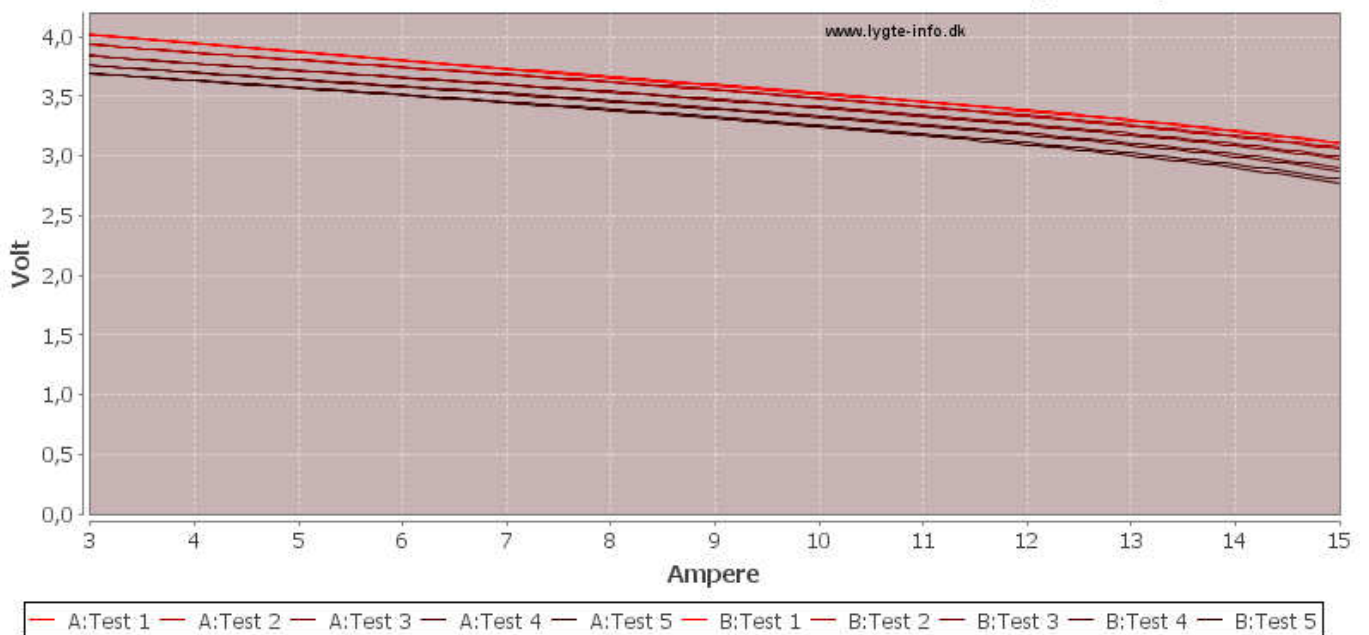
Discharge, energy: Panasonic NCR18650B 3400mAh (Green)



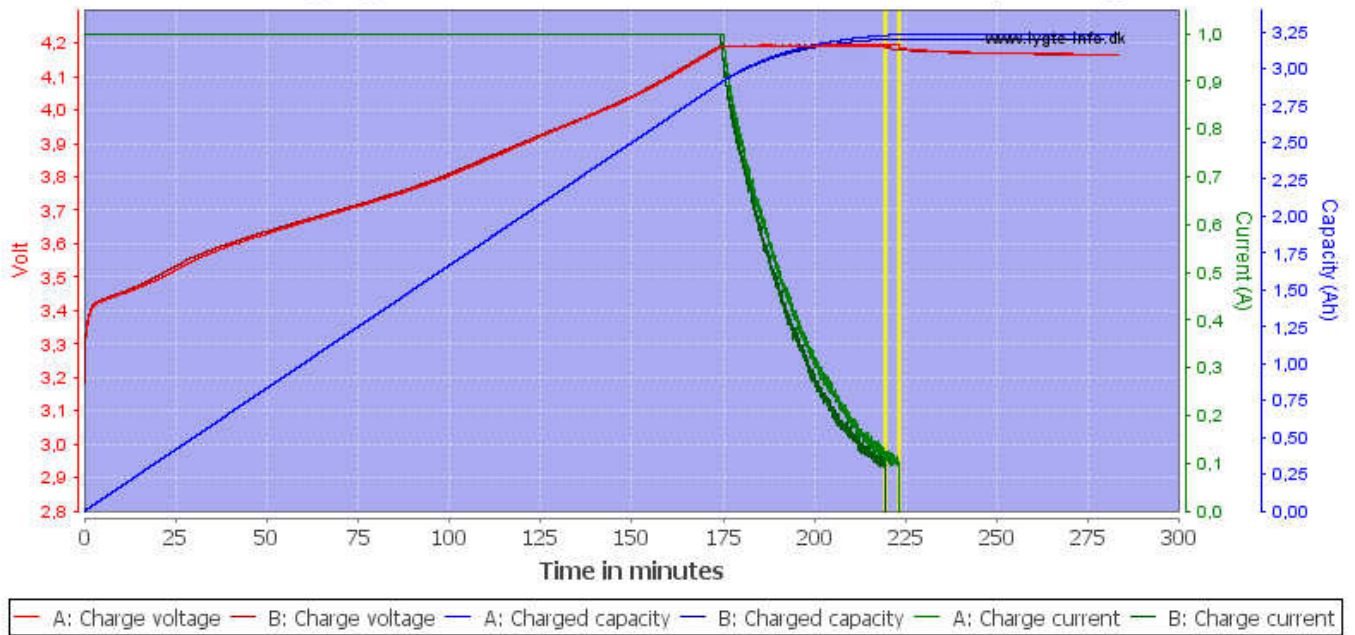
Discharge, power: Panasonic NCR18650B 3400mAh (Green)



Protection test: Panasonic NCR18650B 3400mAh (Green)



Charging: Panasonic NCR18650B 3400mAh (Green)



Conclusion

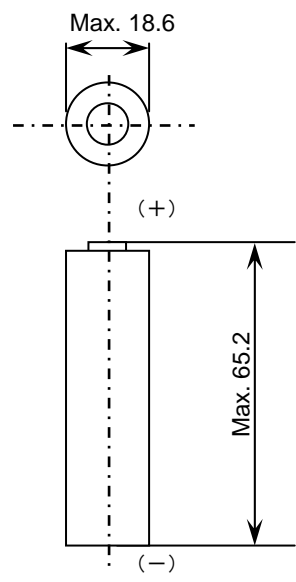
This is genuine Panasonic cells and cannot get any other rating than very good, but remember that they are unprotected!



NNP series NCR-18650A

■ Dimensions

(mm)



※Dimensions of a fresh battery.

To ensure safety, the referenced Li-ion cell is not sold as a bare cell. Li-ion cells must be integrated with the appropriate safety circuitry via an authorized Panasonic Li-ion pack assembler.

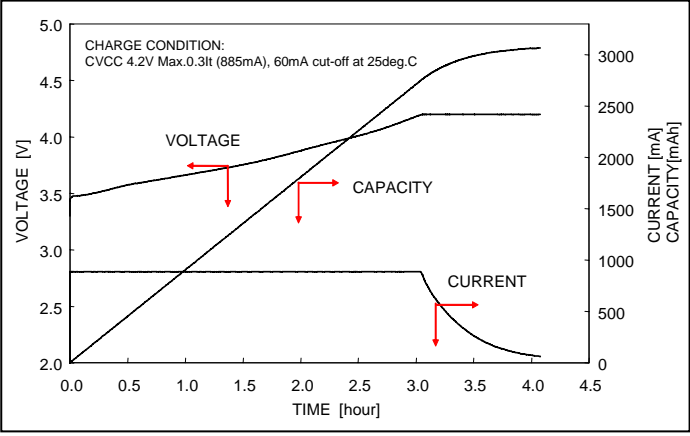
■ Specifications

The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

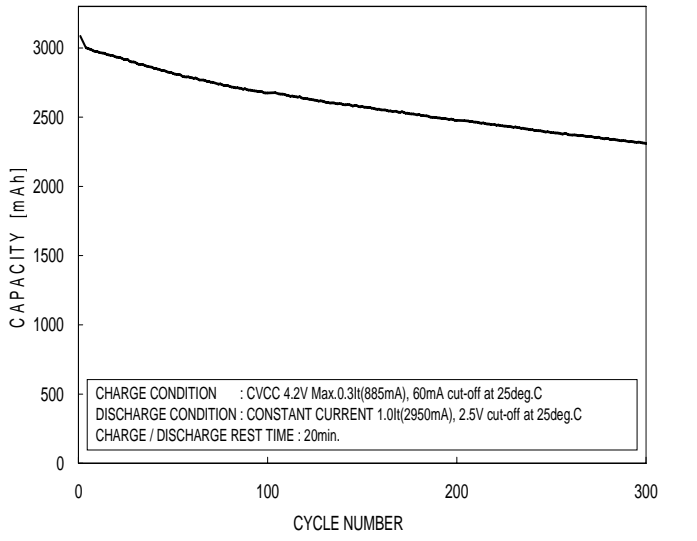
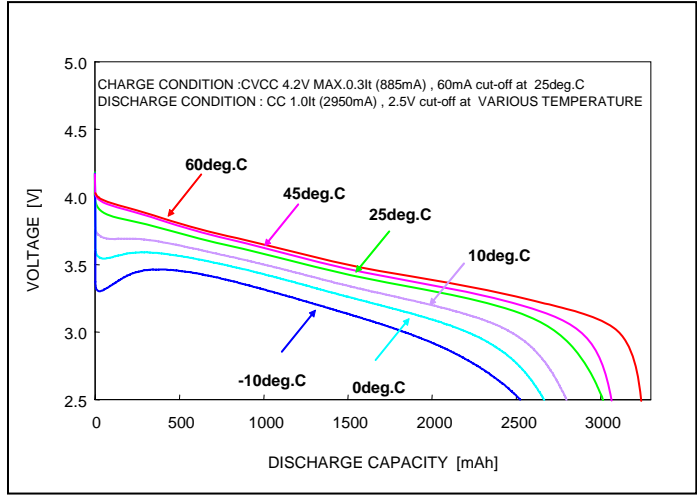
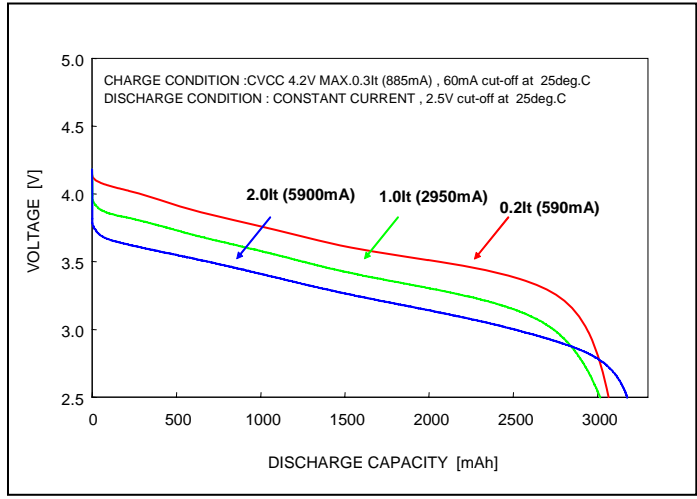
Nominal Voltage		3.6V
Nominal Capacity *1	Minimum	2,950 mAh
	Typical	3,100 mAh
Dimensions	Diameter	Max. 18.6 mm
	Height	Max. 65.2 mm
Approx. Weight		45.5 g

*1 Charge : constant voltage/constant current, 4.2V, max. 885mA, 60mA cut-off at 25deg.C
 Discharge : constant current, 590mA, 2.5V cut-off
 Temperature : 25deg.C

■ Typical charge characteristics



■ Typical discharge characteristics

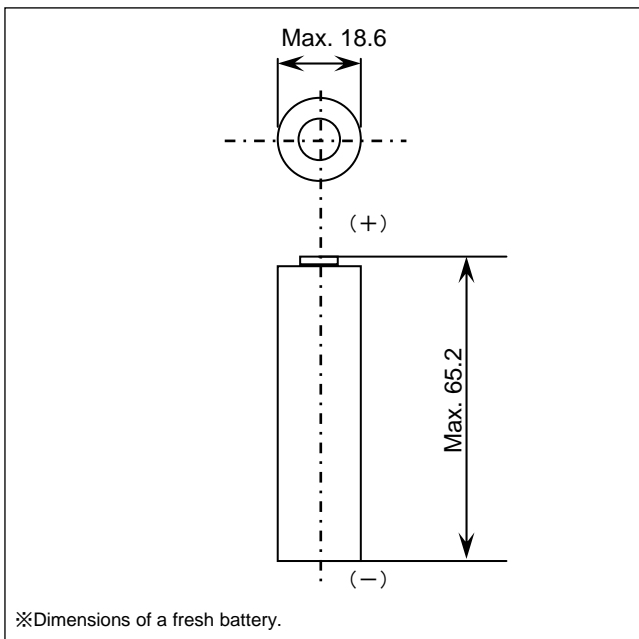


* CVCC: Constant Voltage Constant Current
 CC: Constant Current

NNP series NCR18650

■ Dimensions

(mm)



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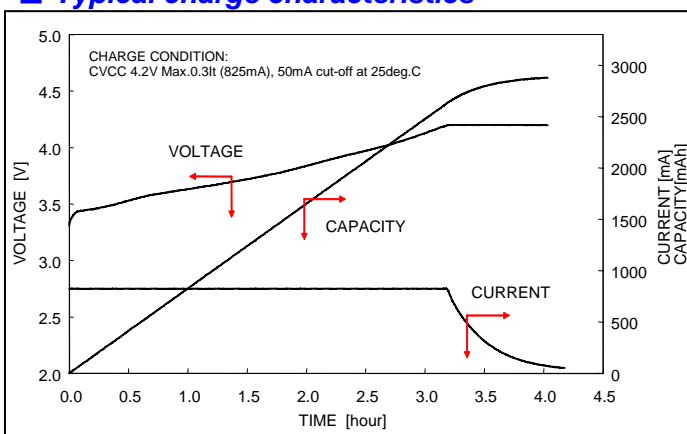
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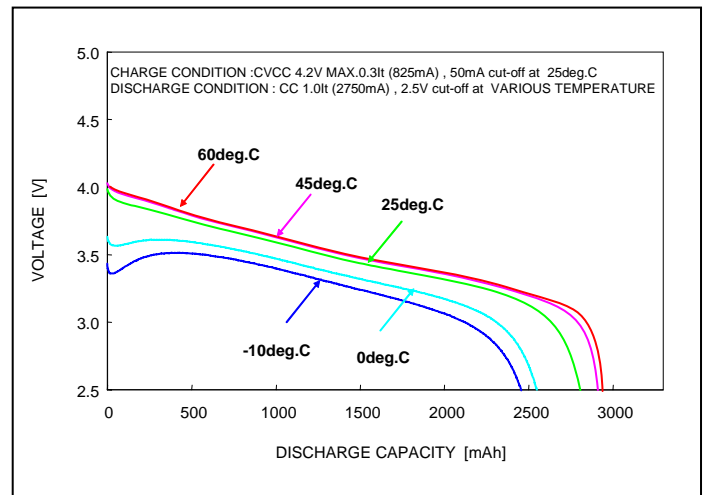
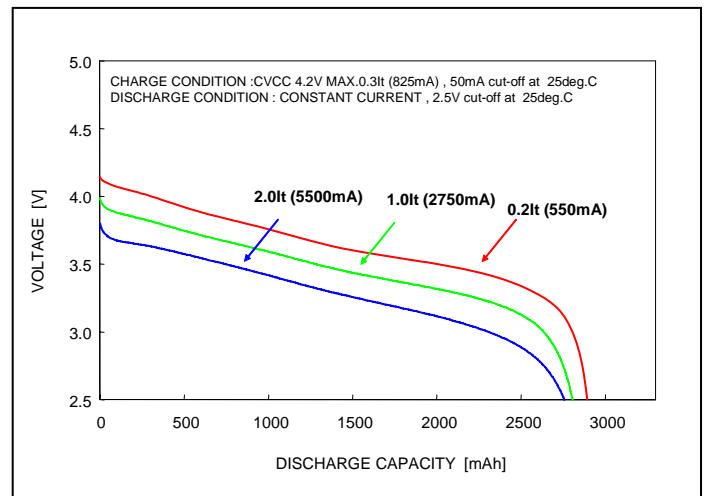
Nominal Voltage		3.6V
Nominal Capacity *1	Minimum	2,750 mAh
	Typical	2,900 mAh
Dimensions	Diameter	Max. 18.6 mm
	Height	Max. 65.2 mm
Approx. Weight		45 g

*1 Charge : constant voltage/constant current, 4.2V, max. 825mA, 50mA cut-off
 Discharge : constant current, 550mA, 2.5V cut-off
 Temperature : 25deg.C

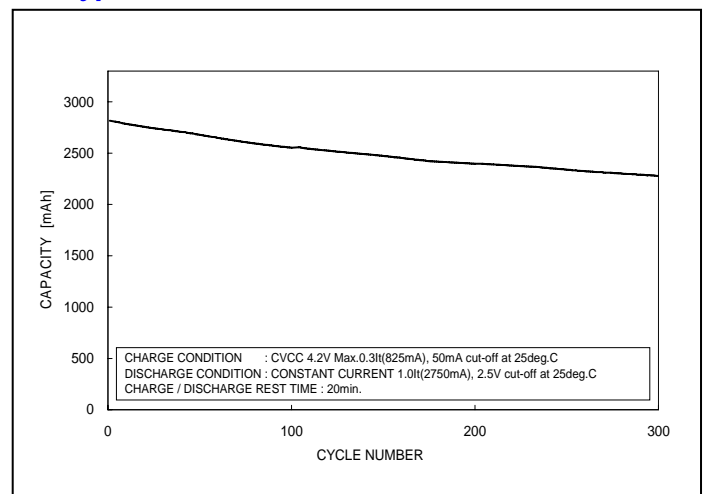
■ Typical charge characteristics



■ Typical discharge characteristics



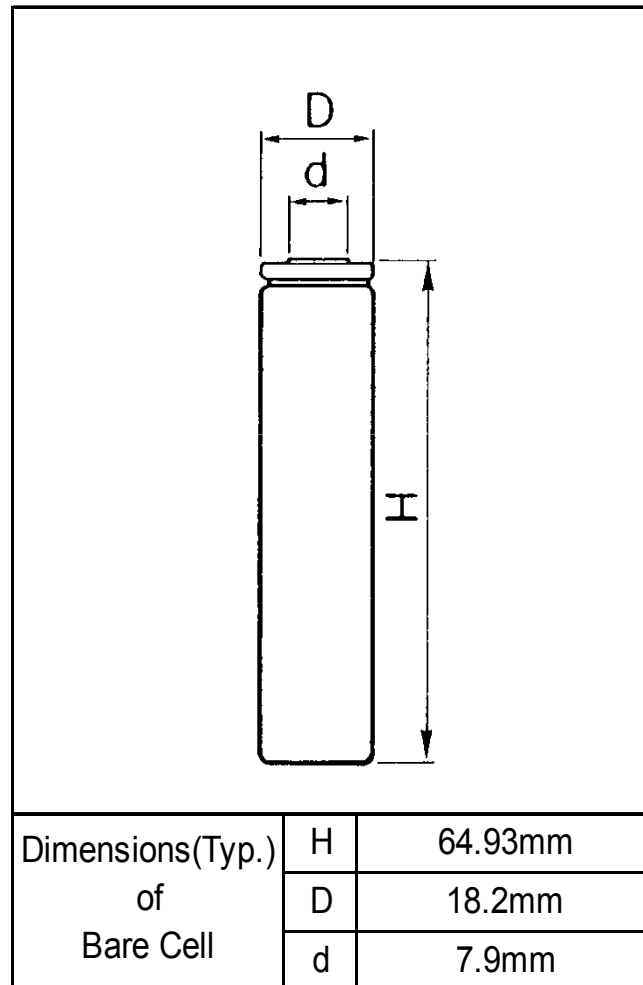
■ Typical life characteristics



* CVCC: Constant Voltage Constant Current
 CC: Constant Current

Cell Type NCR18650B

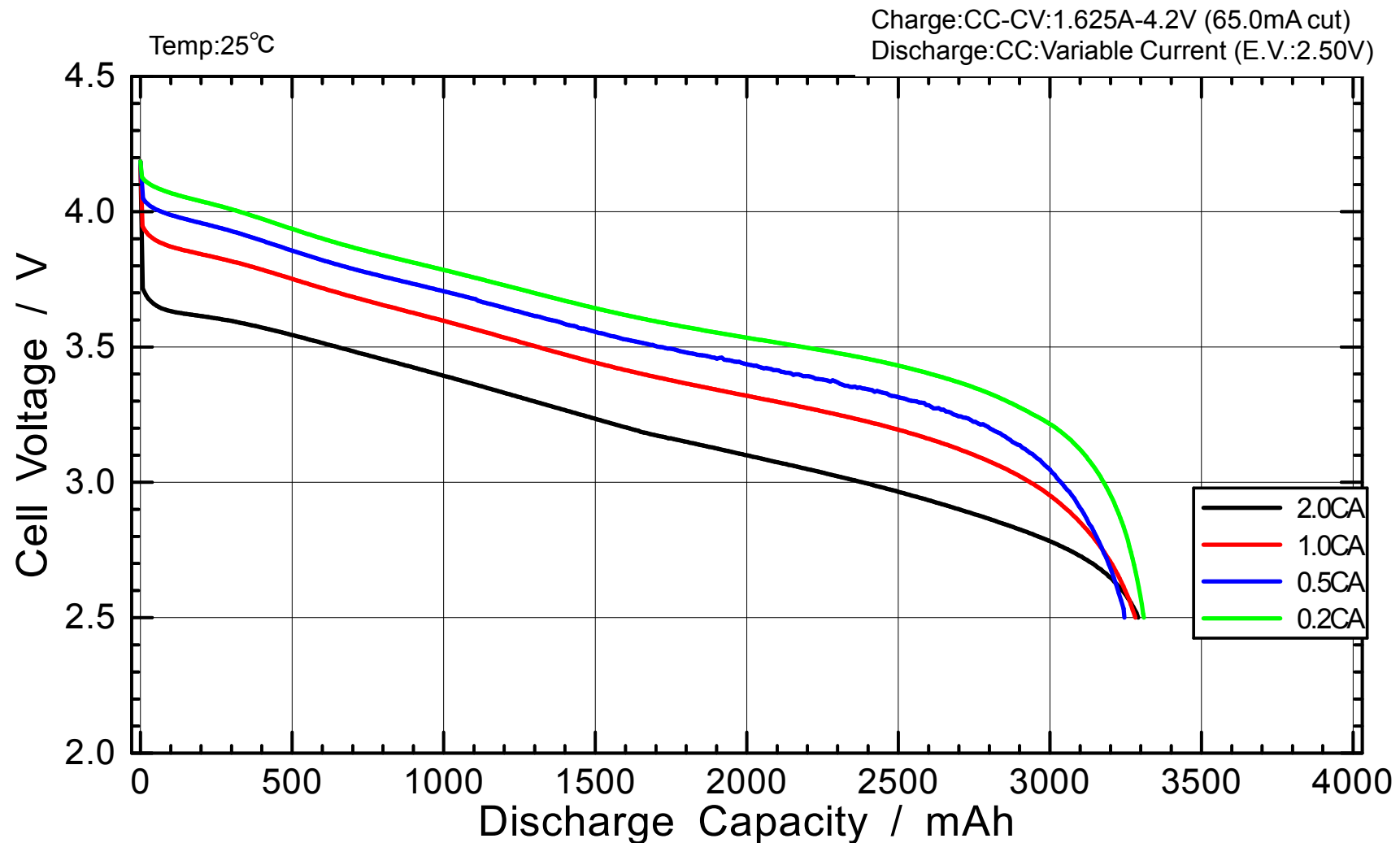
Specifications



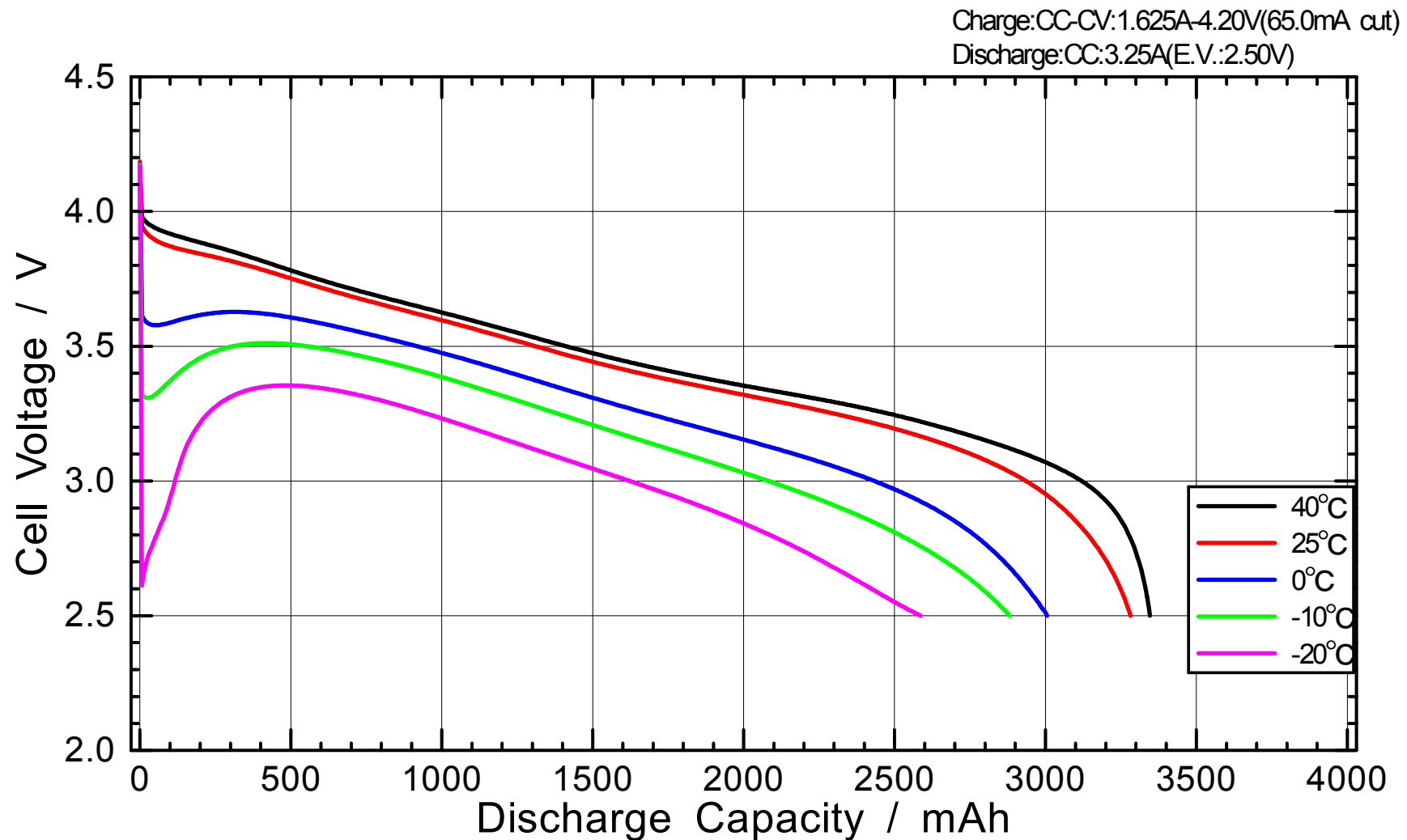
Discharged State after Assembling

Rated Capacity (at 20°C)		Min.3200mAh
Nominal Capacity (at 25°C)		Min.3250mAh
		Min.3350mAh
Nominal Voltage		3.6V
Charging Method		Constant Current -Constant Voltage
Charging Voltage		4.2V
Charging Current		Std.1625mA
Charging Time		4.0hrs.
Ambient Temperature	Charge	+10~+45°C
	Discharge	-20~+60°C
	Storage	-20~+50°C
Weight (Max.)		47.5g
Dimensions (Max.) Maximum size without tube	(D)	18.25mm
	(H)	65.10mm
Volumetric Energy Density		676Wh/l
Gravimetric Energy Density		243Wh/kg

Discharge Rate Characteristics for NCR18650B



Discharge Temperature Characteristics for NCR18650B



Charge Characteristics for NCR18650B

