

Technical data

P20160215

For LANDMAN

# Characteristics of BK200AAB (Ni-MH)

15-Feb-2016

Product Technology Dept.  
NI-MH Battery Factory  
Panasonic Energy(Wuxi) Co.,Ltd

Approval	draw
Nitta	Ni

# Specification of BK200AAB

Confidential  
Until:2021.03.31  
Limited to

( IEC Designation                      HR6                      )

Nominal Voltage		1.2 V	
Rated (Minimum) capacity		1900 mAh	
Average capacity (for reference only)		1980 mAh	
Dimension (with sleeve)	Diameter	14.5+0/-0.7 mm	
	Height	50.5+0/-1.0 mm	
Weight		Approx. 27 g	
Internal Impedance at 1000Hz		Approx. 25 mΩ	
Maximum Discharge Current		3800 mA	
Charge	Standard	190 mA × 16 hours	
	Rapid *1	1200 mA × 2 hours (with control system)	
Ambient Temperature  (Ta)	Charge	Standard	0°C ≤ Ta ≤ +45 °C (32 ≤ Ta ≤ 113 °F)
		Rapid	0°C ≤ Ta ≤ +40 °C (32 ≤ Ta ≤ 104 °F)
	Discharge	-10°C ≤ Ta ≤ +65 °C (14 ≤ Ta ≤ 149 °F)	
	Storage	within 1 year	-20°C ≤ Ta < +35°C (-4 ≤ Ta < 95 °F)
		within 6 months	-20°C ≤ Ta < +45 °C (-4 ≤ Ta < 113 °F)
		within 1 month	-20°C ≤ Ta < +55 °C (-4 ≤ Ta < 131 °F)
		within 1 week	-20°C ≤ Ta ≤ +65 °C (-4 ≤ Ta ≤ 149 °F)

\*1) Need specially designed control system

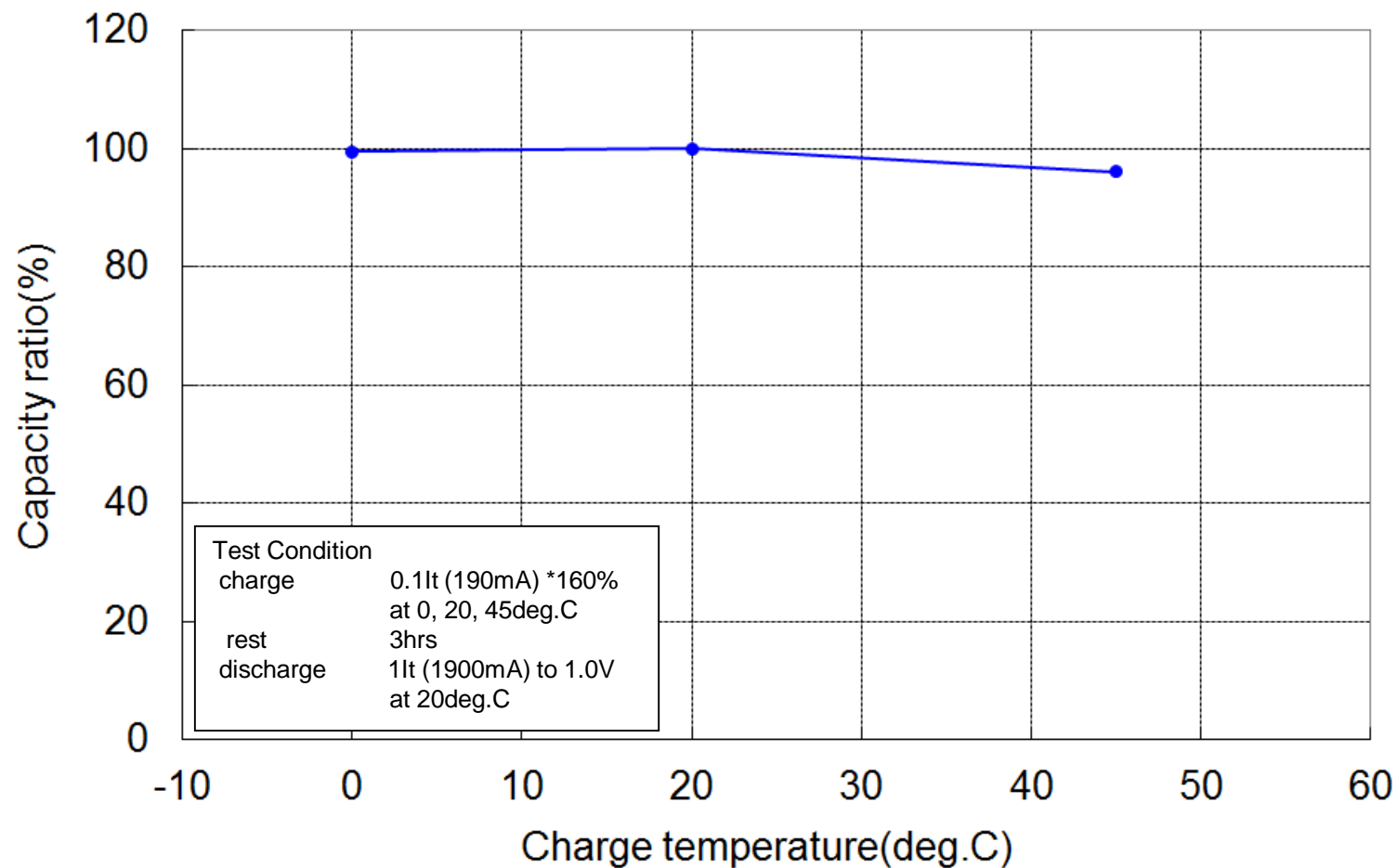
Control  
system

dT/dt cut-off ; 1 to 2 °C/min  
and  
-ΔV cut-off ; -ΔV per cell = 5 to 10 mV  
and  
T-control ; T= 55 °C  
and  
Rapid charger timer ; 2 ~ 2.5 h  
and  
Total timer ; 10 to 20 h (for trickle charge)

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# 0.1It(190mA) Charge characteristics

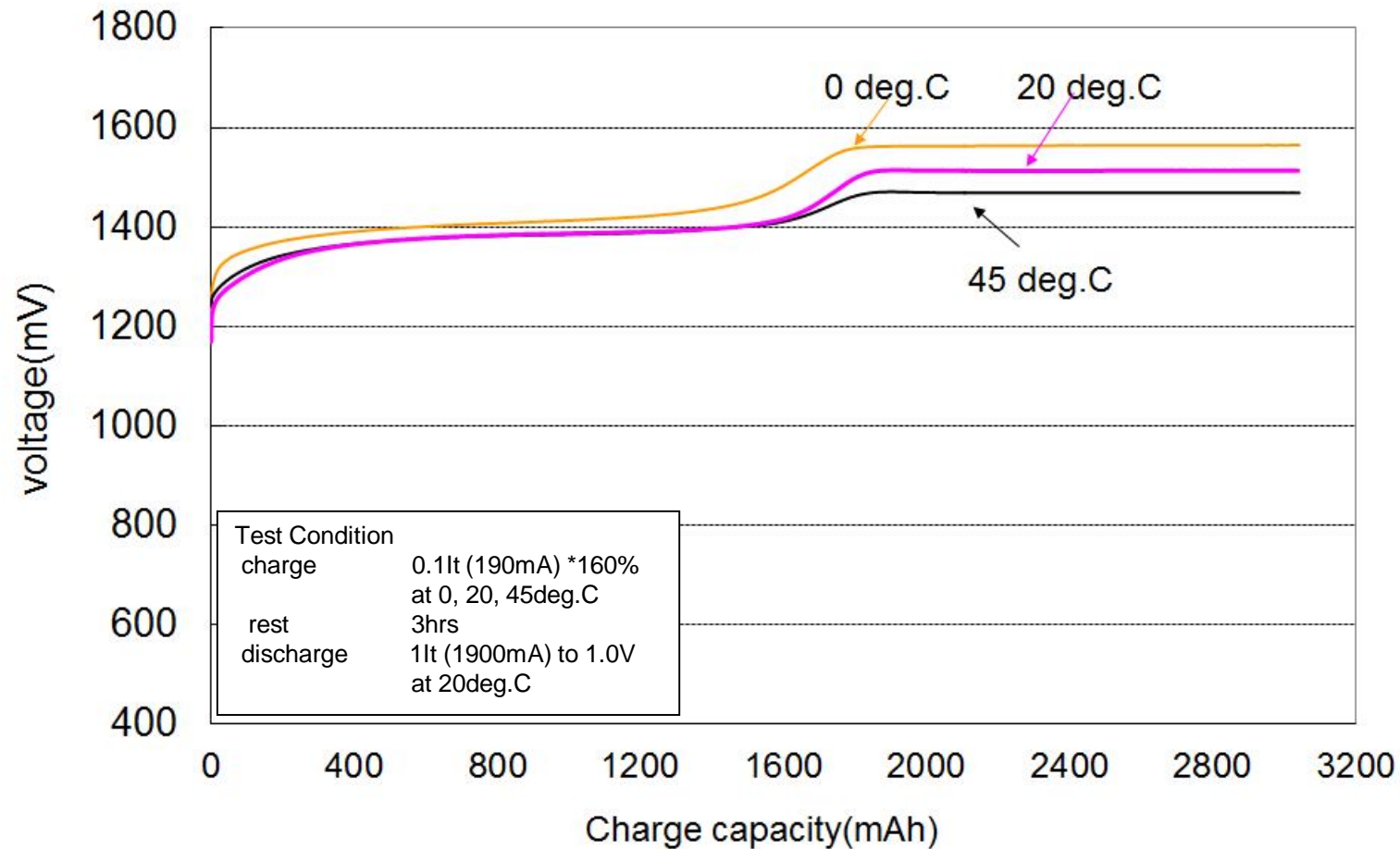
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# 0.1It(110mA) Charge characteristics

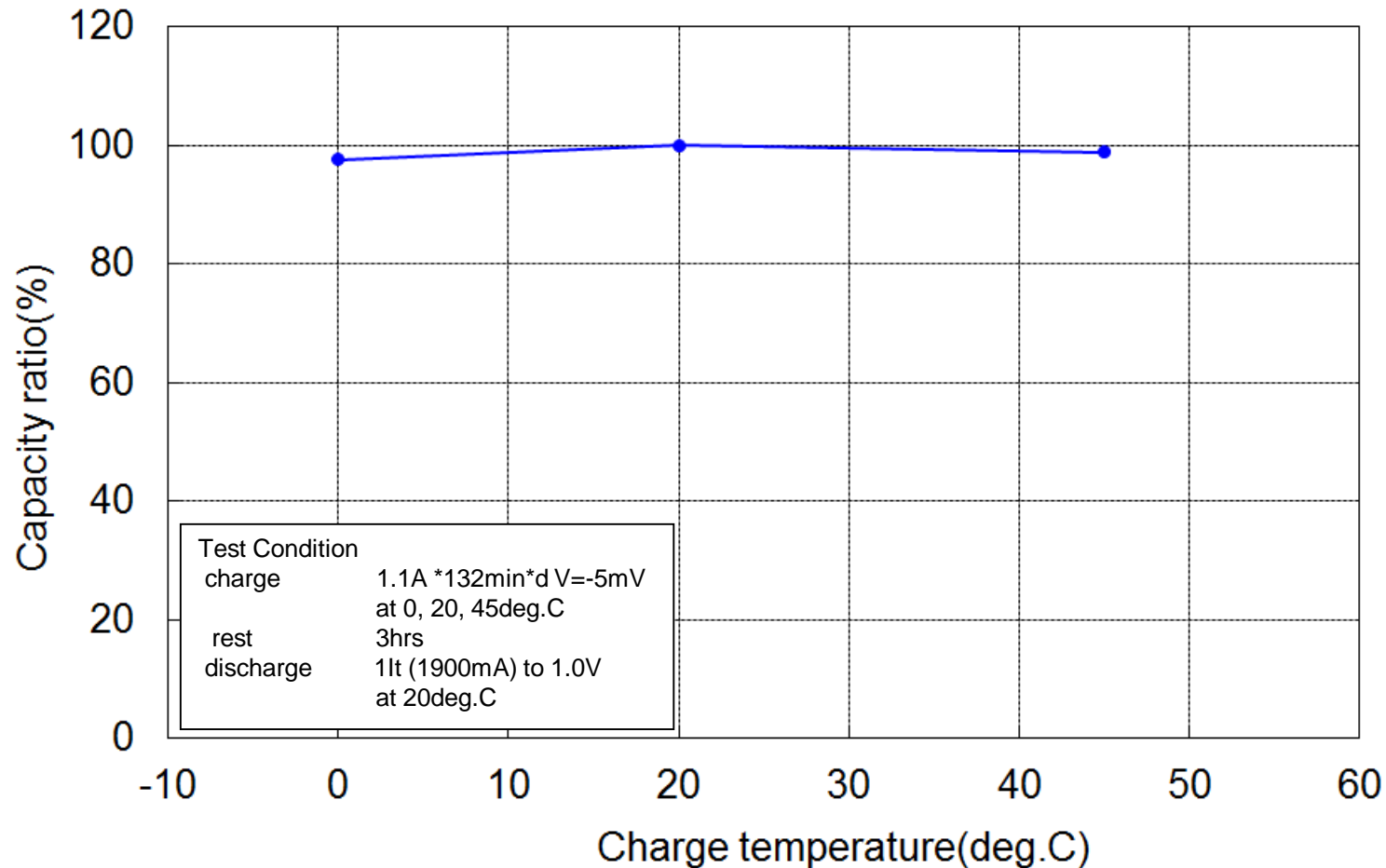
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# 1.1A Charge characteristics

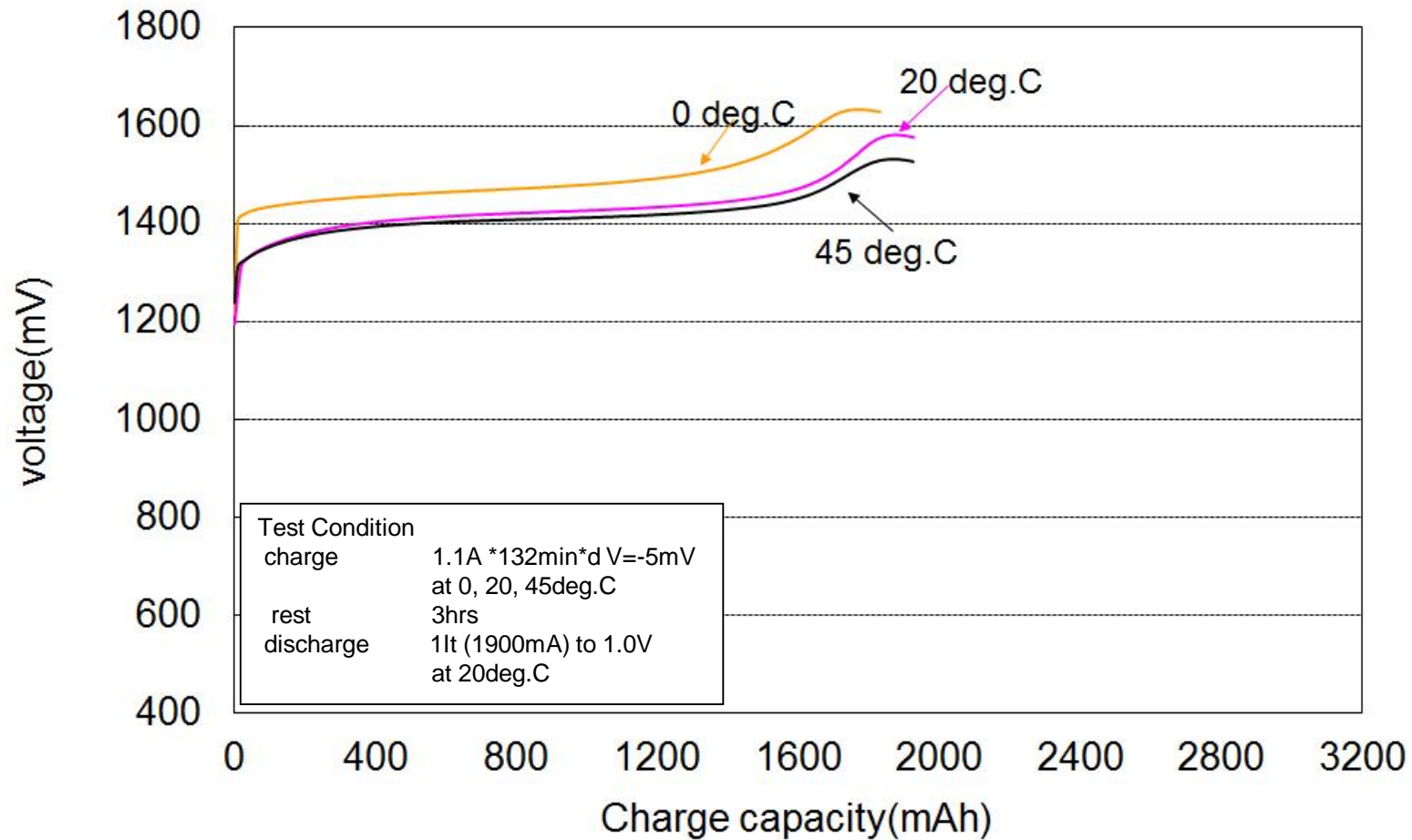
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# 1.1A Charge characteristics

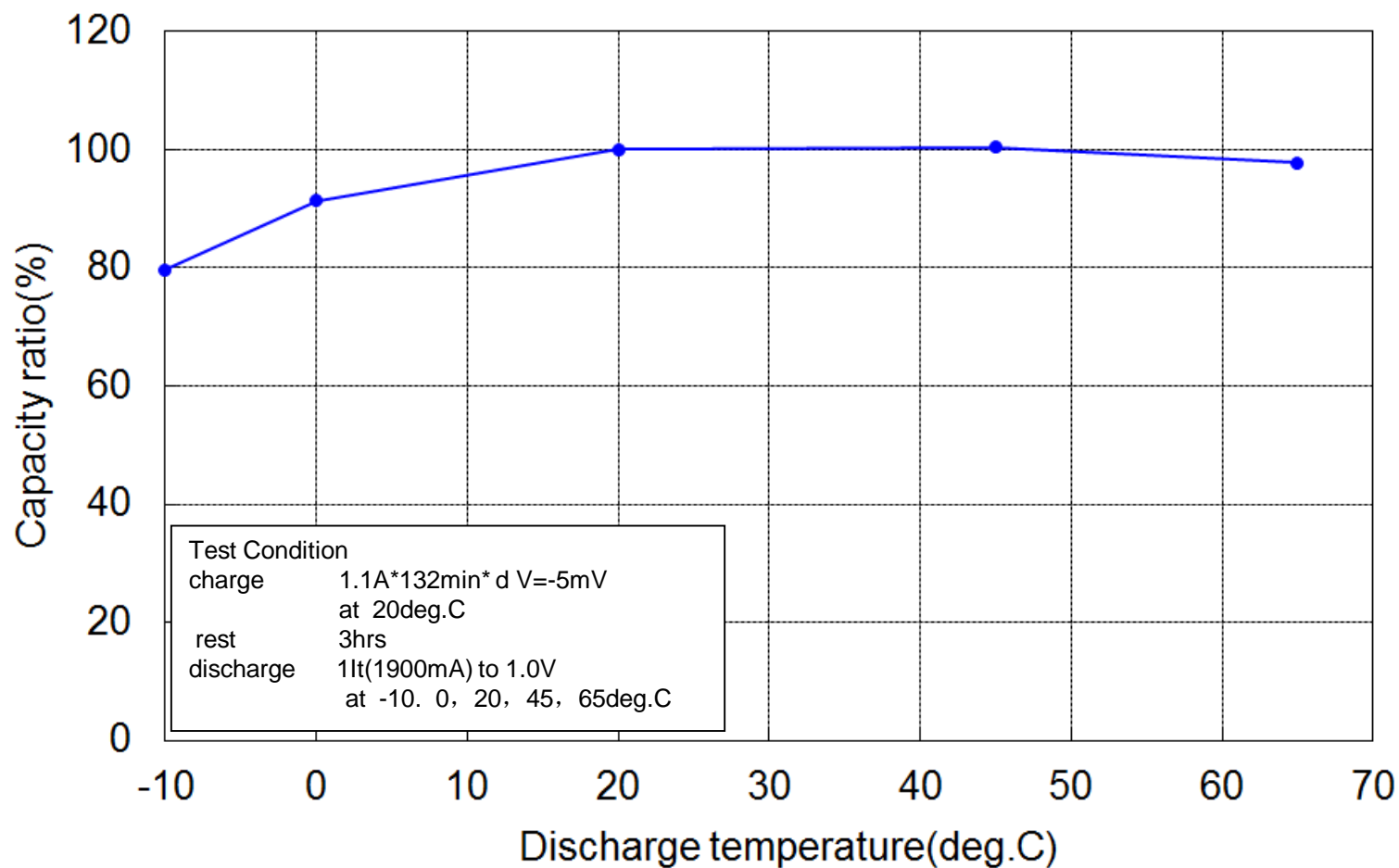
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# 1It(1900mA) Discharge characteristics

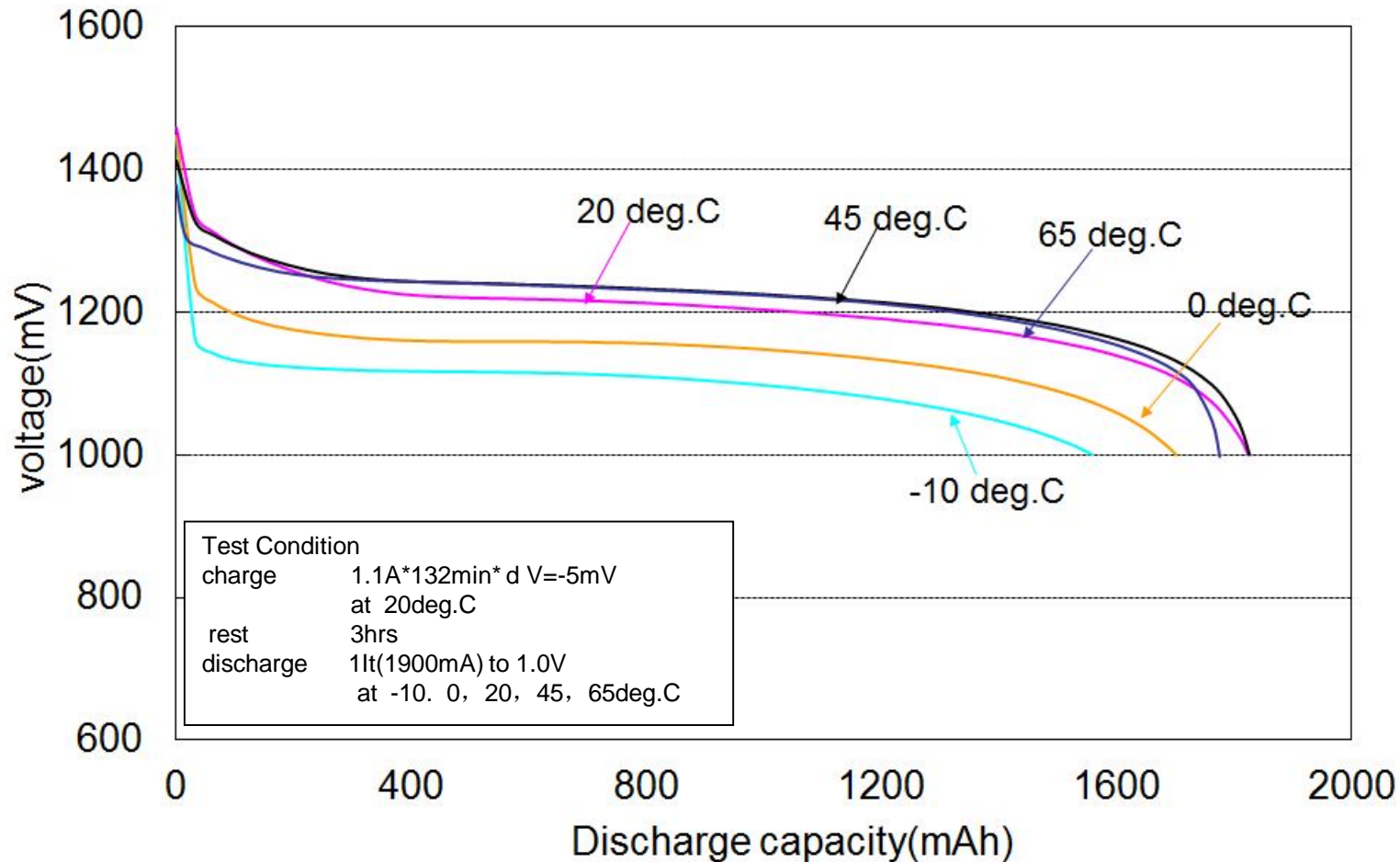
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# 1It(1900mA) Discharge characteristics

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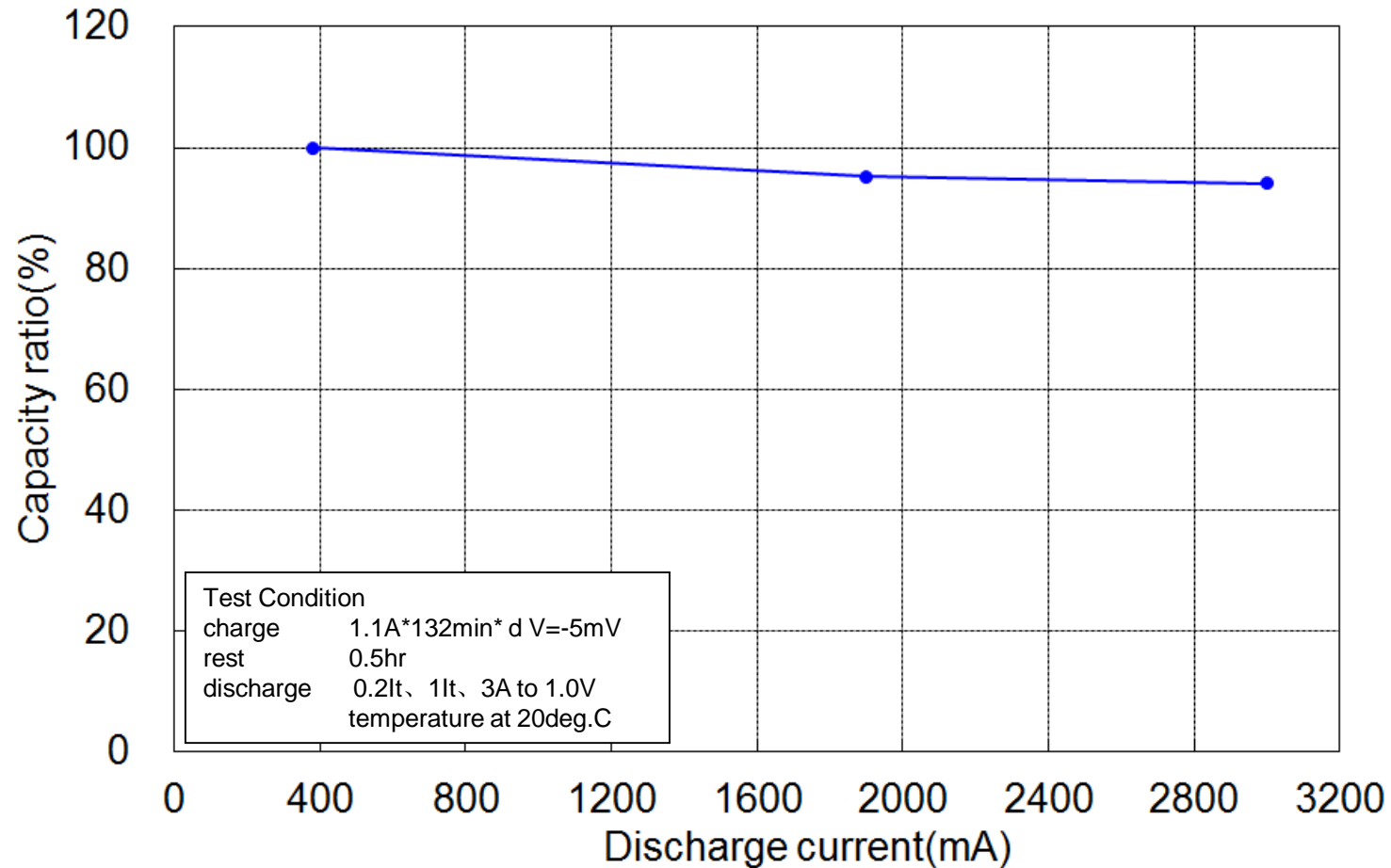


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# Discharge efficiency

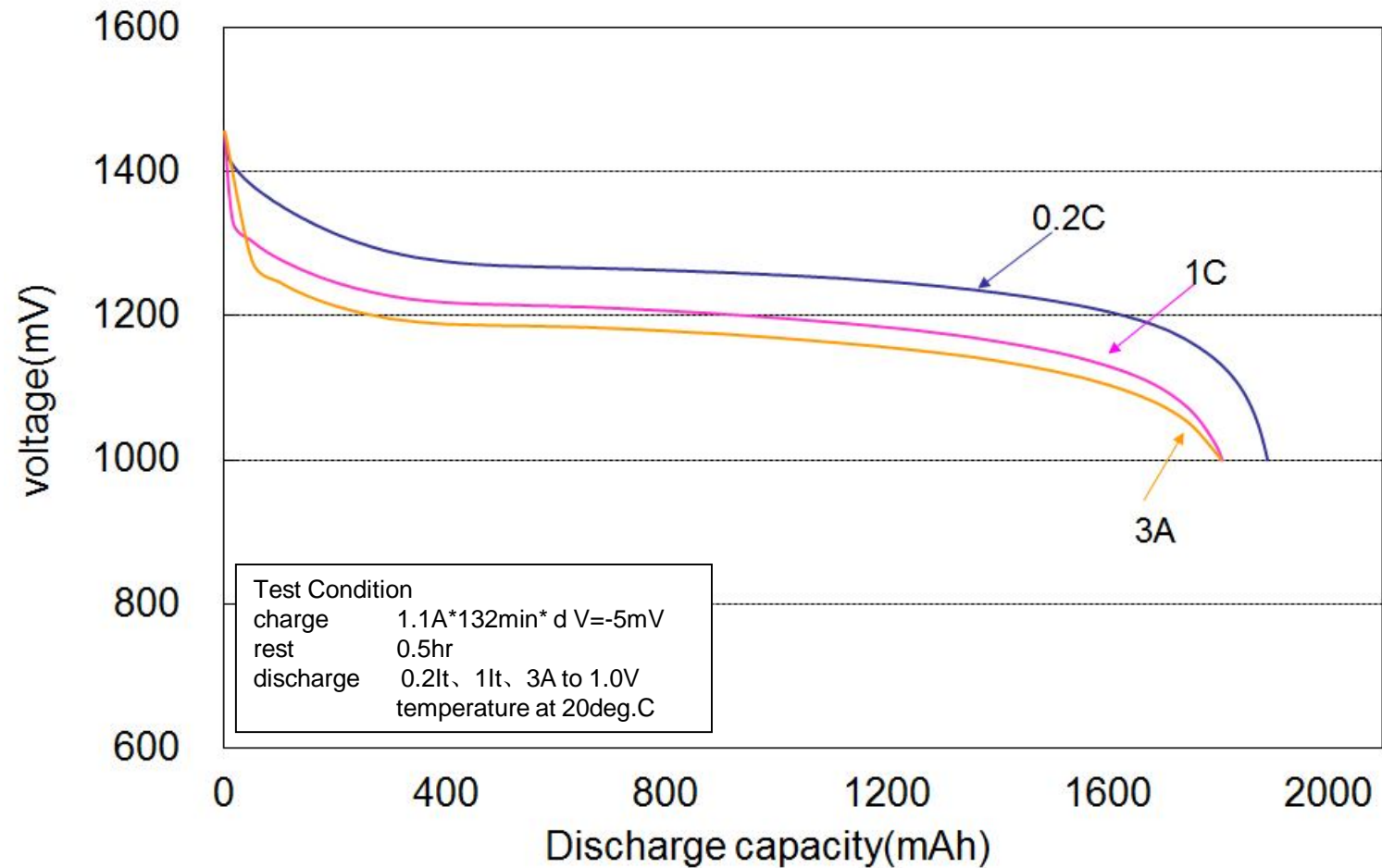
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# Discharge efficiency

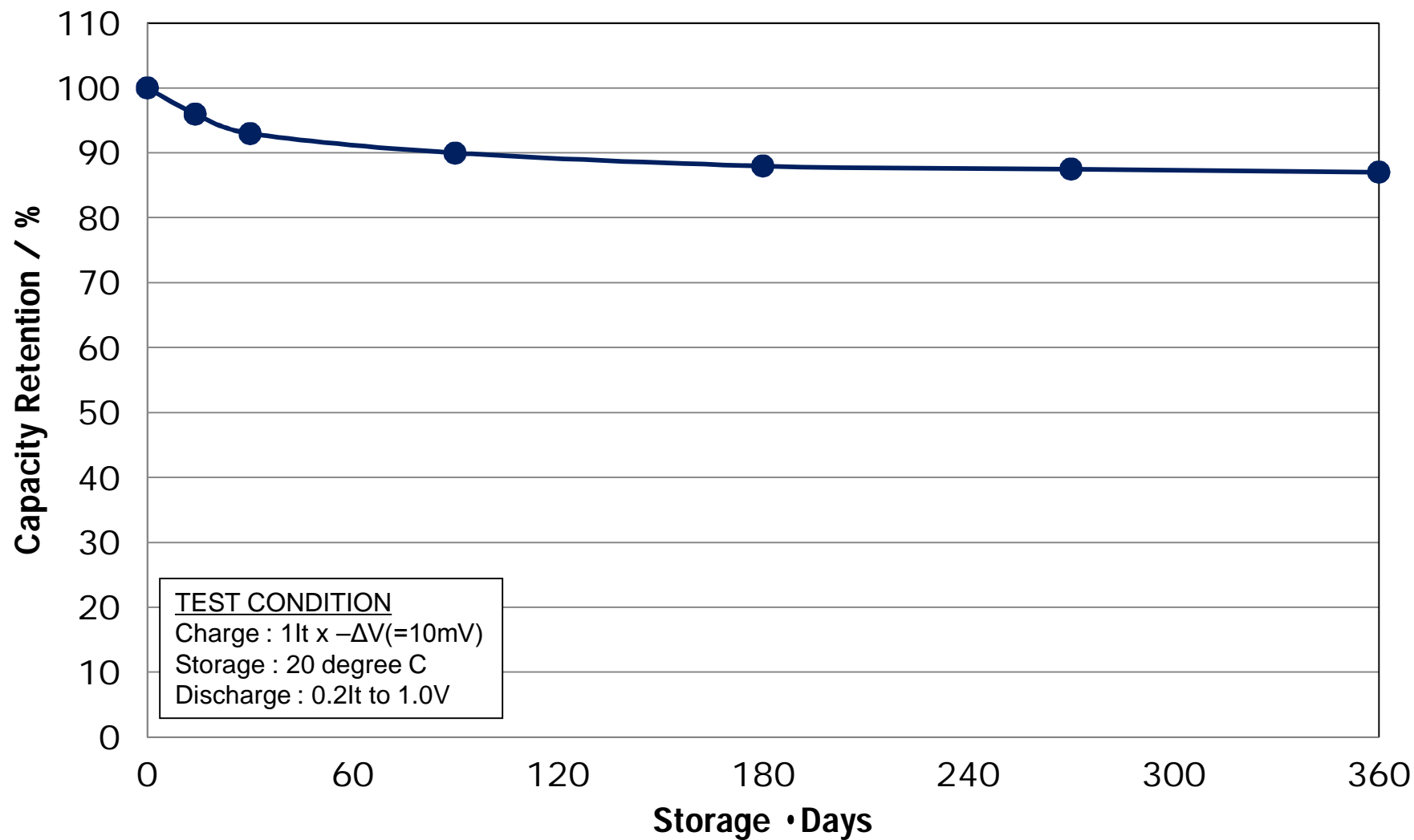
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# Self discharge characteristics

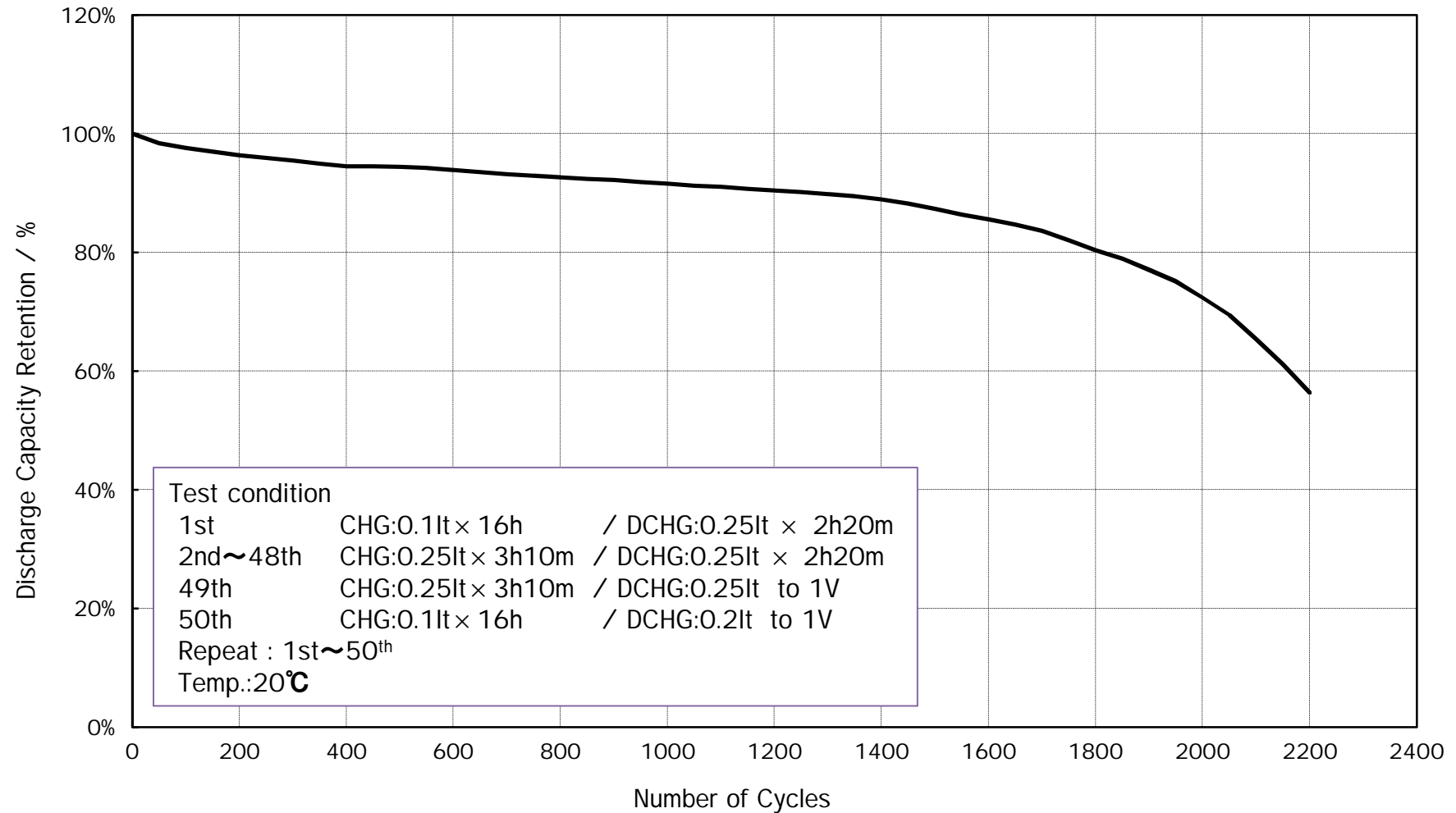
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# Cycle Life(IEC)

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