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Sony US18650VTC3 **Technical Data**

21 Feb, 2011



General Specification

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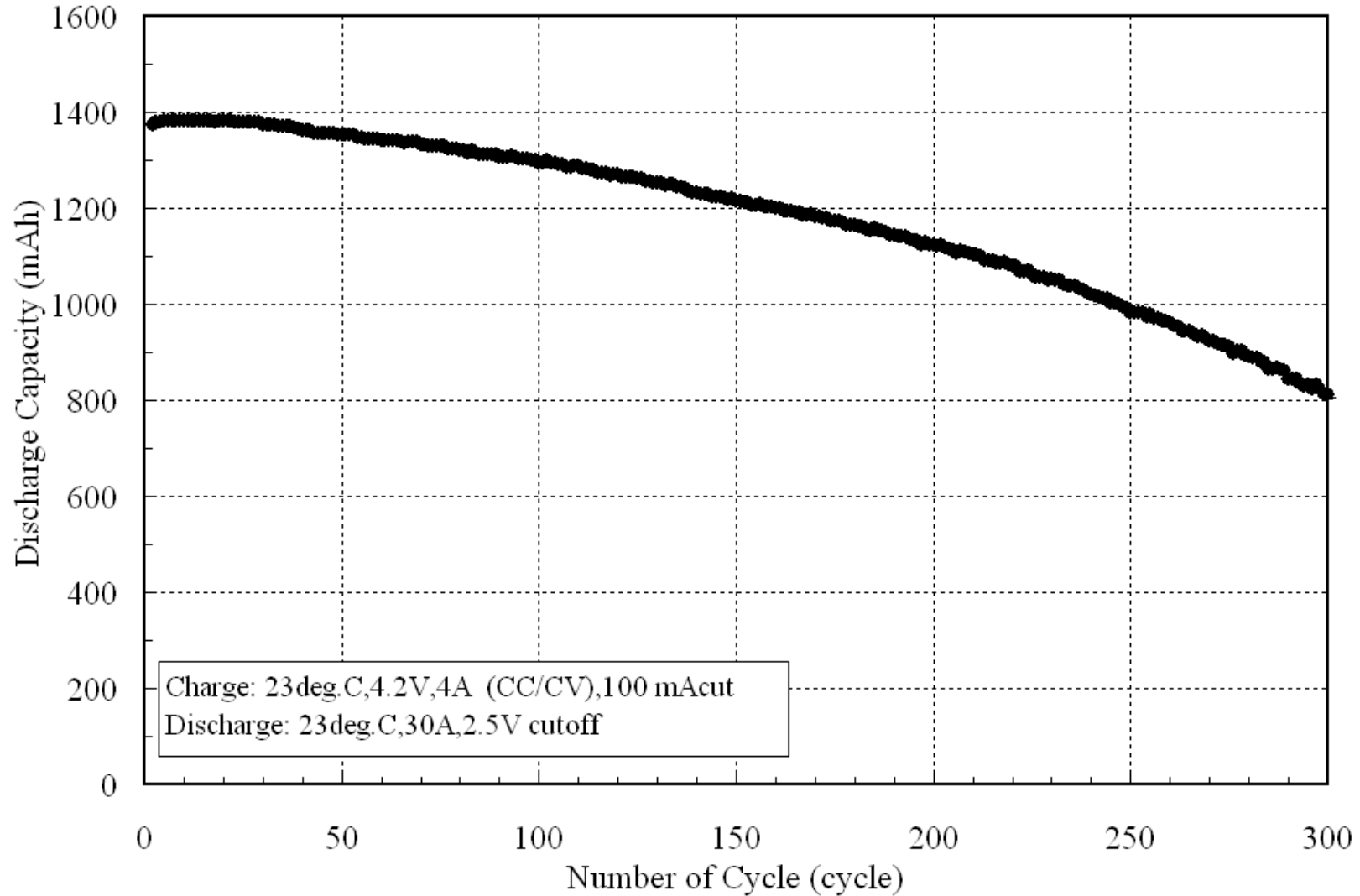
US18650VTC3		
Capacity (0.2ItA Discharge)	Typical Minimum	1.60Ah 1.50Ah
Nominal Voltage		3.6V
AC-IR		12m Ω
DC-IR		25m Ω
Charging Method		CC-CV
Charging Voltage		4.2V
Charging Current (TBD)		4.0A
Discharge Voltage Cut-off		2.5V
Discharge Current (TBD)		30A
Cycle Life at 30A discharge @100cycles (TBD)		70%



Cycle Performance (30A Discharge)

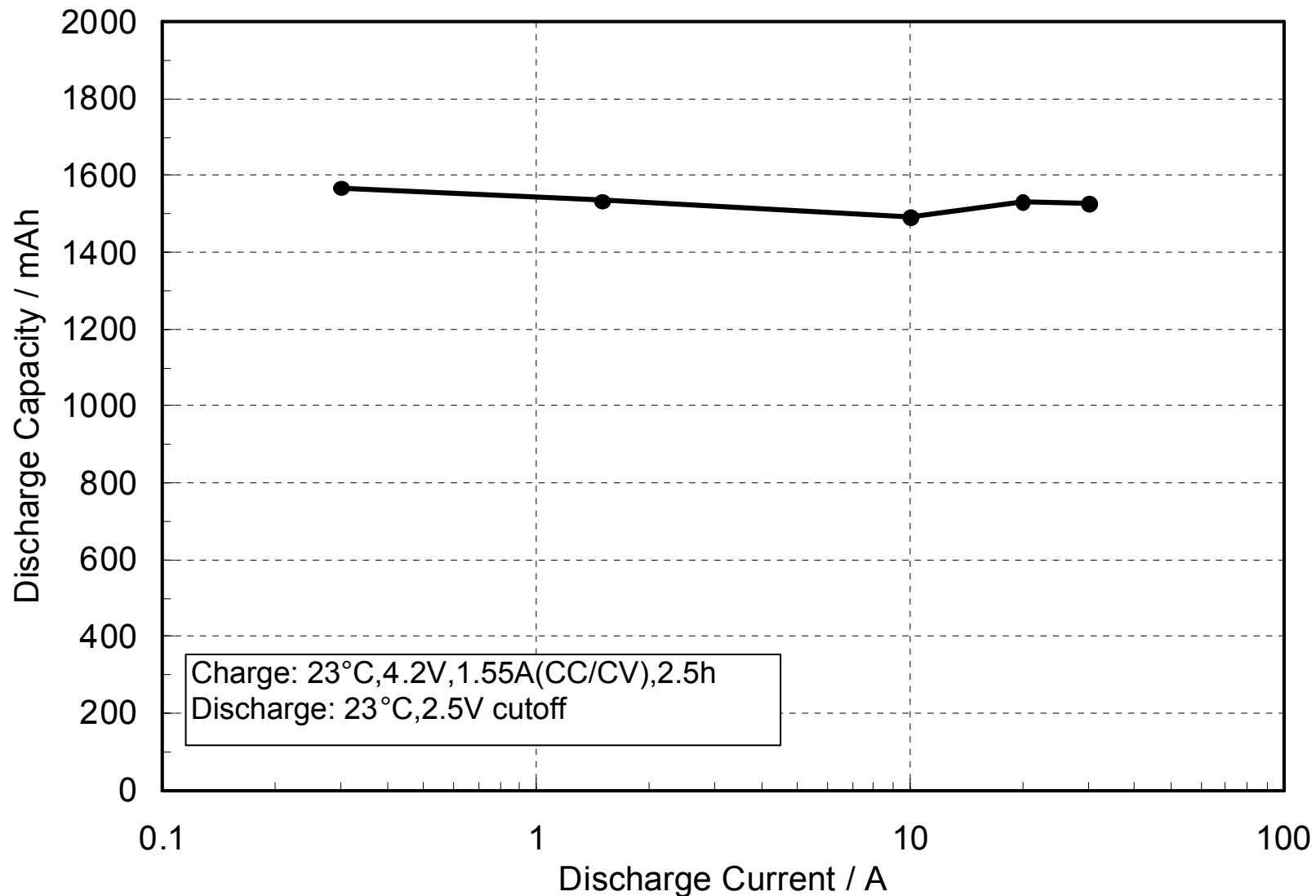
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Discharge Load Characteristics

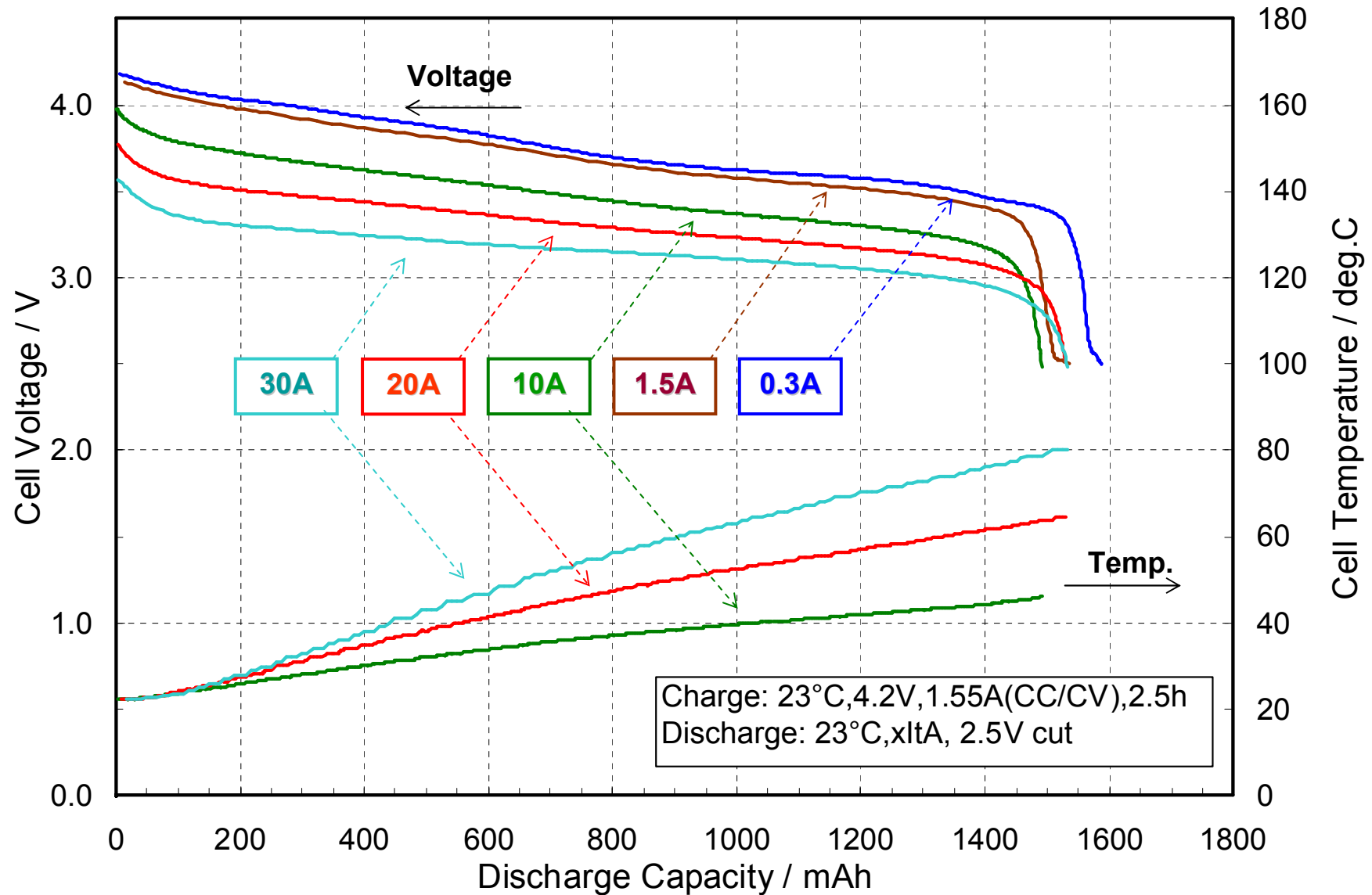




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Discharge Curves

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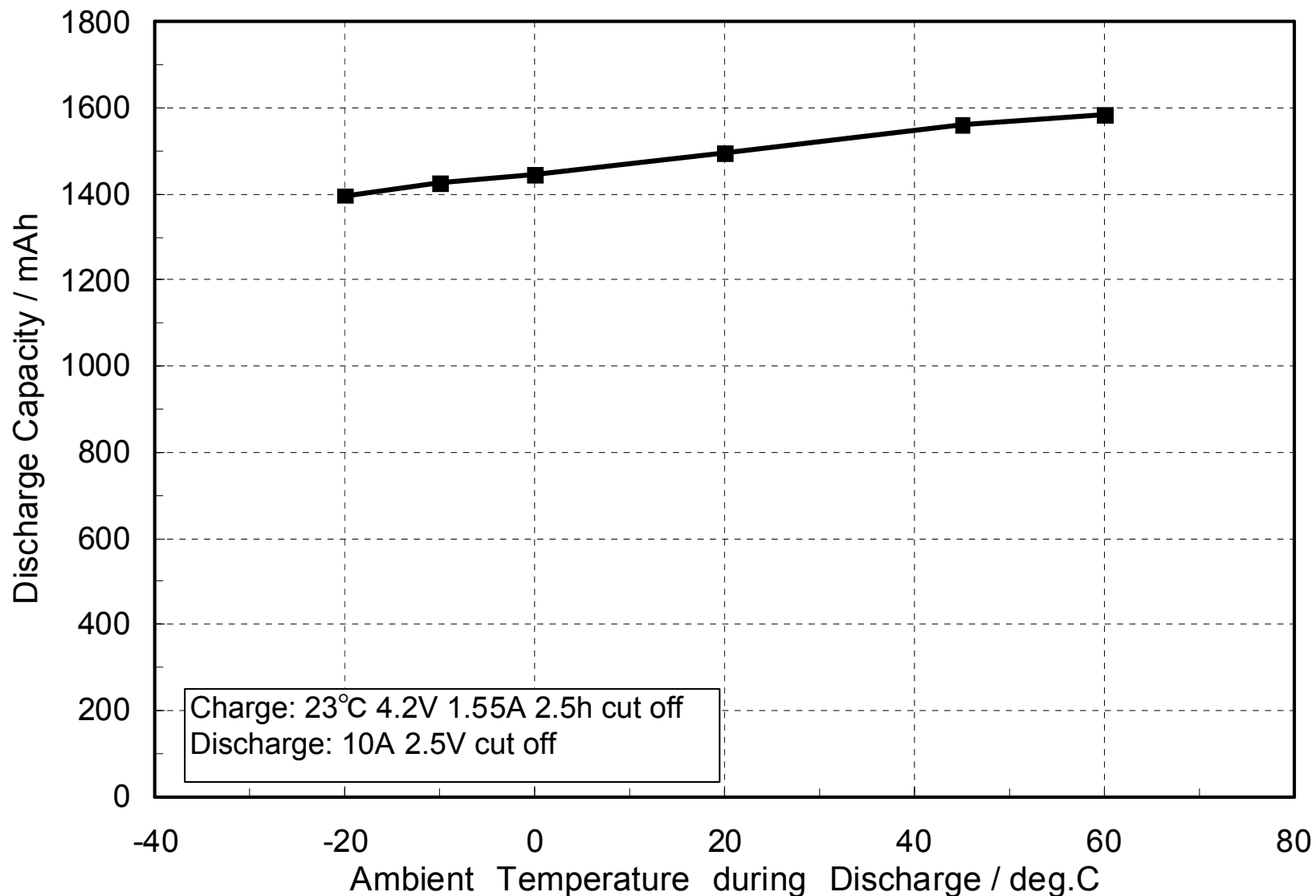




Temperature Dependence of Discharge Capacity

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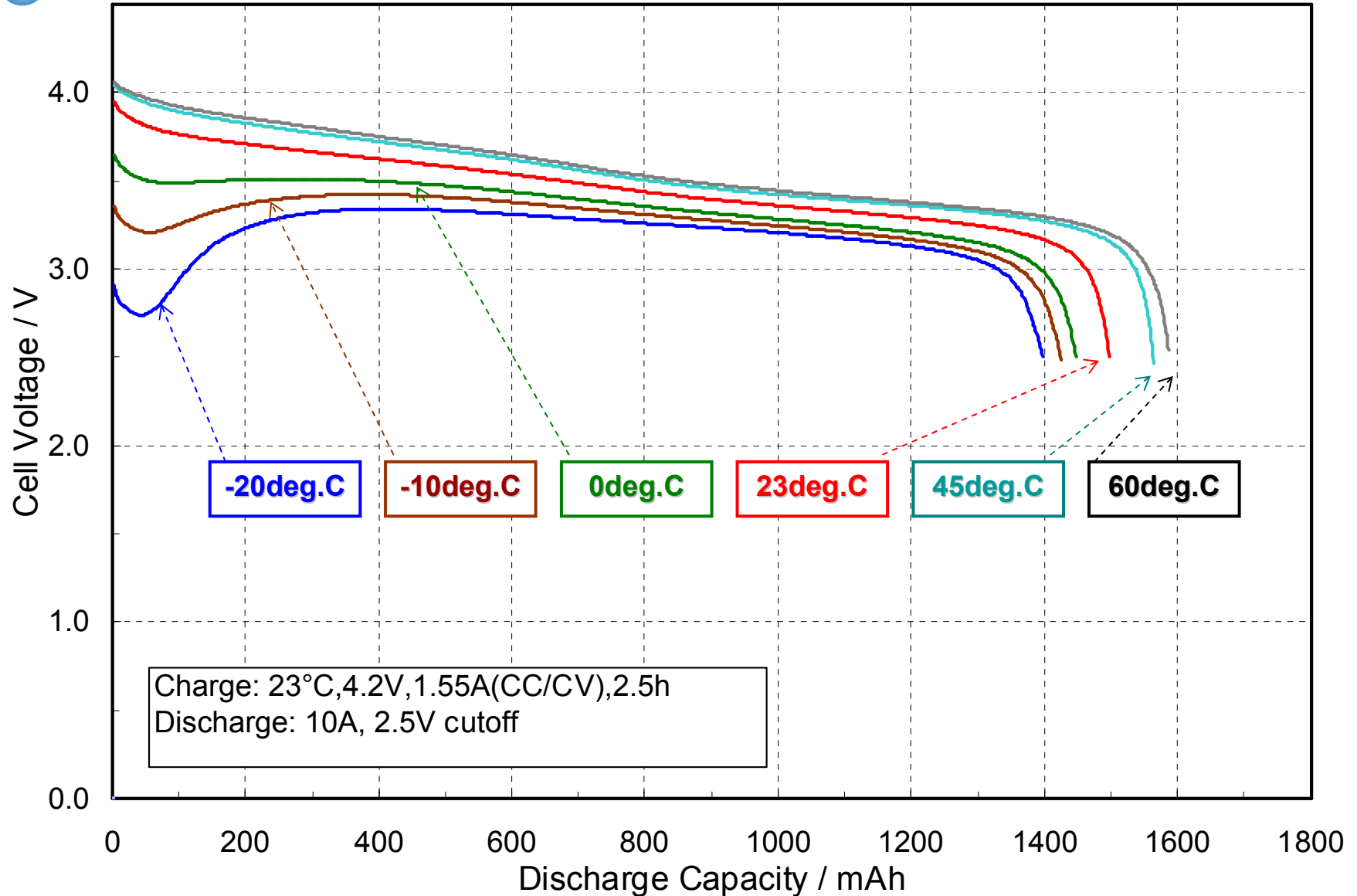




Temperature Dependence of Discharge Curves

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Safety Overviews

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Item	Condition	Criteria	Result	Judge
Over Charge	45deg.C, 10A, 18V	Lev. 1 \geq	3/3 Lev. 0	OK
External Short Circuit	60deg.C, 80 \pm 20m Ω short circuit, 4.25V	Lev. 1 \geq	3/3 Lev. 0	OK
Over Charge Nailing	23deg.C, ϕ 2.5mm Nail, 4.32V	Lev. 1 \geq	3/3 Lev. 1	OK
Crush	23deg.C, 13kN, Flat steel plate, 4.25V	Lev. 1 \geq	3/3 Lev. 1	OK
Impact	23deg.C, ϕ 15.8mm circular rod, Height 61cm, 9.1kg Iron plate	Lev. 1 \geq	3/3 Lev. 1	OK
Hot Box	165deg.C	Lev. 1 \geq	3/3 Lev. 1	OK

Criteria

- Lev. 0 No change
- Lev. 1 Leak
- Lev. 2 Gas eruption
- Lev. 3 Explosion
- Lev. 4 Fire



Schedule (VTC3)

2010					2011				
Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.
Development Trial					Line Trial		Pre Production		Mass Production