



WorleyParsons
Advanced Energy Solutions



N6545135HS1 (3200mAh 20C)

November 2006

**WORLEYPARSONS (AES)
ADVANCED ENERGY SOLUTIONS
111 Somerset Rd #12-05
Singapore Power Building
Singapore 238164**

Ph: +65 6419 8234 Fax: +65 6735 7444



No.	ITEMS		SPECIFICATION
1	Nominal Capacity		Min. 3200mAh
2	Nominal Voltage		3.7V
3	Charge Condition	Max. current	1.0C (3200mAh)
		Voltage	4.20 ± 0.02V
4	Discharge Condition	Max. current	20C (64 A)
		Cut-off Voltage	2.75V
5	Operating Temperature	Charge	0°C ~ 45°C
		Discharge	-10°C ~ 60°C
6	Weight		Max. 80 g
7	Dimensions (mm)	Thickness	6.5
		Width	45
		Length	135
8	Energy density	Volumetric	300 Wh/l
		Gravimetric	148 Wh/kg



WorleyParsons
Advanced Energy Solutions

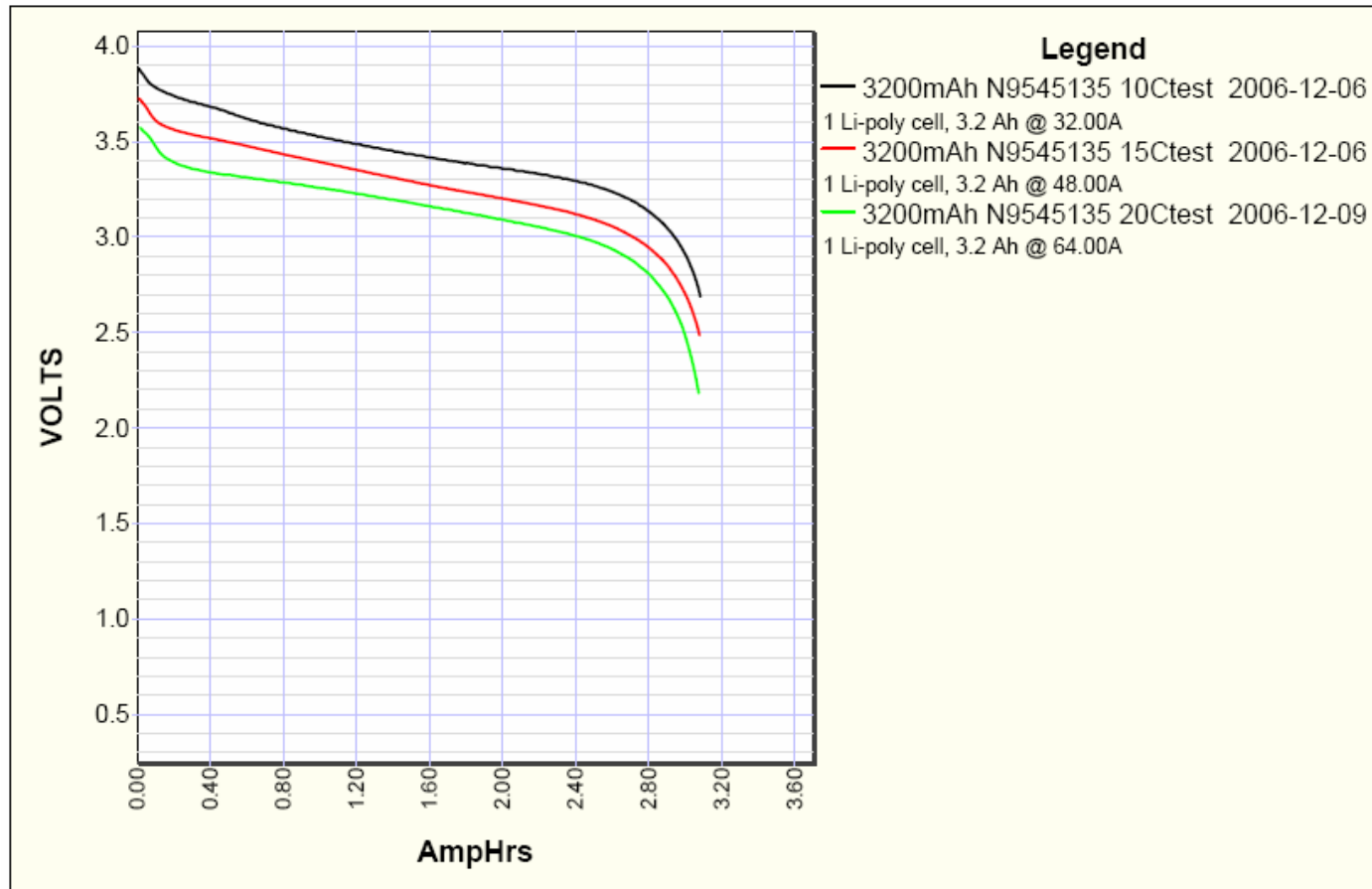
Performance

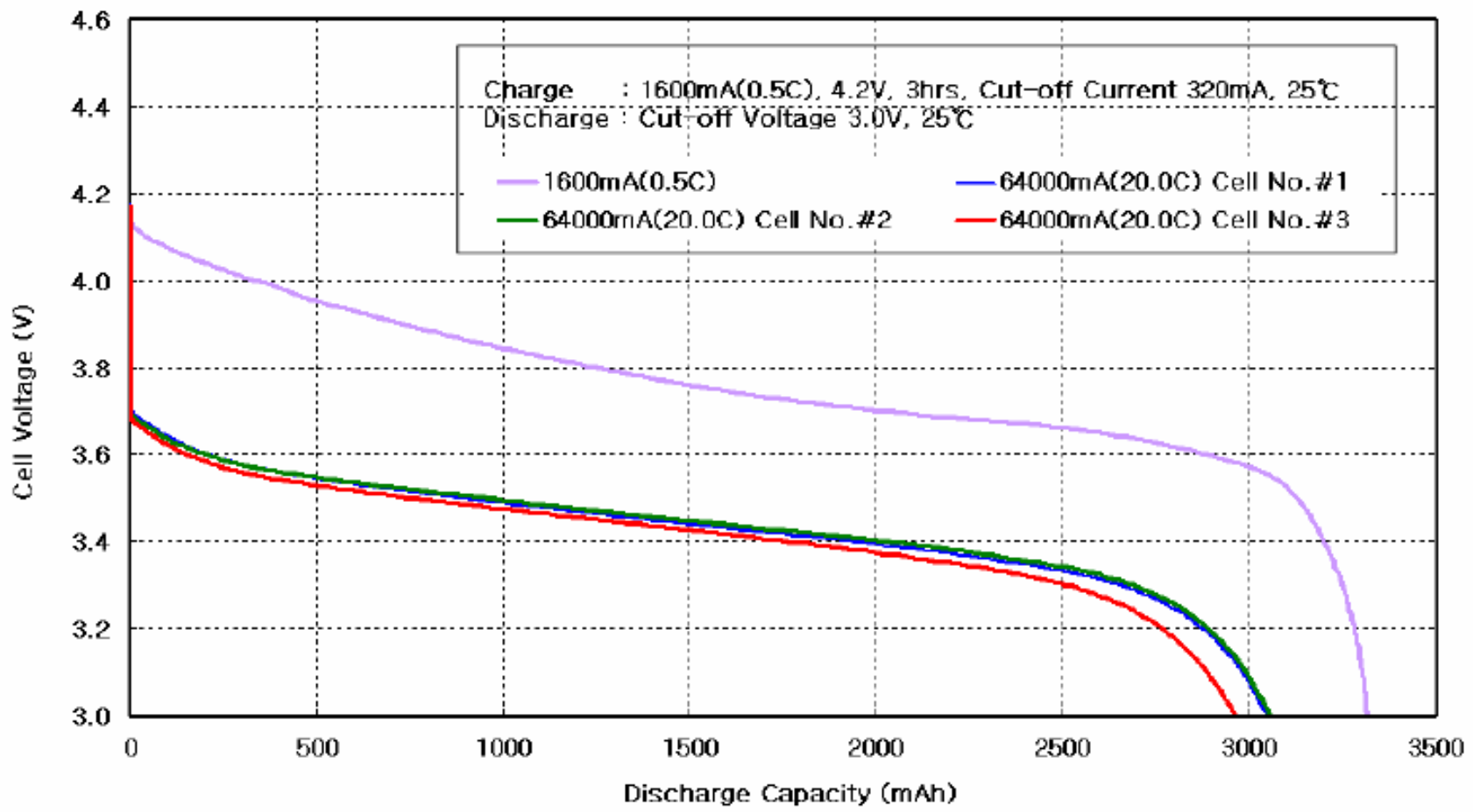
REVOLUTION

No.	ITEMS		CRITERION	REMARKS
1	High rate Discharge Characteristics	0.5C / 0.5C	100%	Charge : 0.5C, 4.2V, 3hrs or 0.1C Discharge : 3.0V cut-off Temperature : 25 °C
		10C / 0.5C	> 90%	
		15C / 0.5C	> 85%	
		20C / 0.5C	> 80%	
2	Temperature Characteristics	60°C	> 95%	Charge : 0.5C, 4.2V, 3hrs or 0.1C Discharge : 0.5C, 3.0V cut-off
		40°C	> 97%	
		25°C	100%	
		0°C	> 90%	
		-10°C	> 80%	
3	Cycle Life Characteristics		> 500 cycles	Charge : 1.0C, 4.2V, 3hrs or 0.1C Discharge : 1.0C, 3.0V cut-off
4	Storage characteristics	6 Months at 25°C	> 90%	On a storage, Cell state is 55~65% charge(3.9V~4.0V)
		3 Months at 45°C	> 80%	
		1 Months at 60°C	> 80%	



High Rate Discharge Characteristics







WorleyParsons
Advanced Energy Solutions

Safety

REVOLUTION

No.	ITEMS	TEST	CRITERION		TEST METHOD	RESULT	REMARKS
			STATE	CONDITION			
1	Overcharge	1A, 5V	Full charge	Fresh	SEC ver.6	NE, NF.	
2	Forced Discharge	1A, -5V	Full charge	Fresh	UL1642	NE, NF.	
3	External Short Circuit	100mΩ	Full charge	Fresh	UL1642	NE, NF.	
4	Heating	10min. At 150°C	Full charge	Fresh	UL1642	NE, NF.	
5	Crush	13kN Pressure	Full charge	Fresh	UL1642	NE, NF.	
6	Impact	9.1kg at 61cm	Full charge	Fresh	UL1642	NE, NF.	