



WorleyParsons

Superior Lithium Polymer Battery

N636394 4500mAh

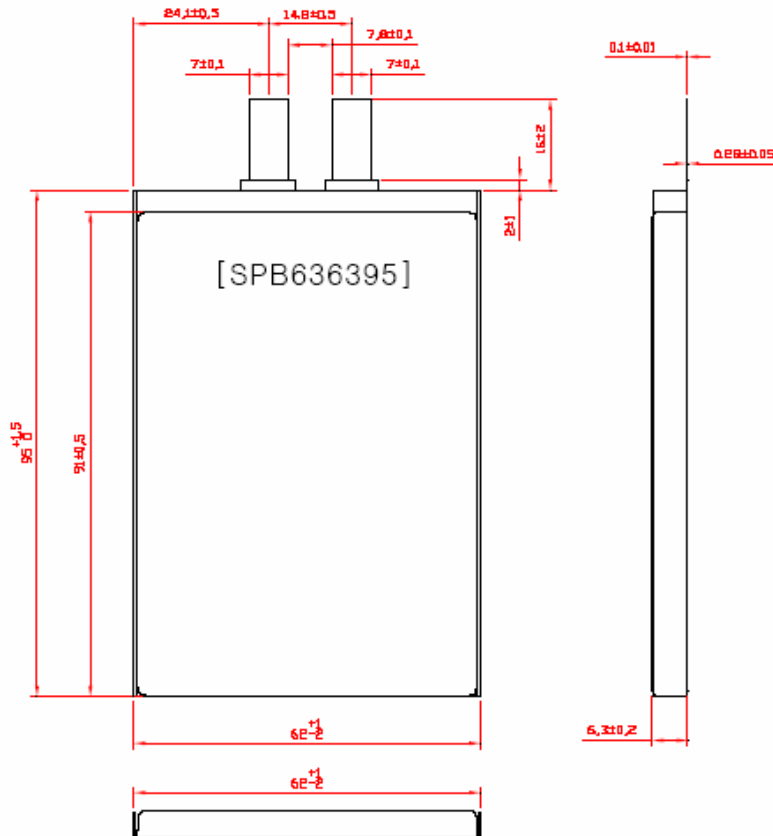
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WORLEYPARSONS (AES)

111 Somerset Rd #12-05 Singapore Power Bld

Singapore 248373

Ph: +65 6735 8444 Fax: +65 6735 7444



No.	ITEMS	SPECIFICATION	REMARKS
1	Nominal Capacity	Min. 4500mAh	
2	Nominal Voltage	3.7V	
3	Charge Condition	Max. current	1.0CmA (4500mAh)
		Voltage	$4.20 \pm 0.02V$
4	Discharge Condition	Max. current	1.0CmA(4500mA)
		Cut-off Voltage	3.0V
5	AC Impedance	Max. $15m\Omega$	at 1kHz
6	Operating Temperature	Charge	$0^{\circ}C \sim 45^{\circ}C$
		Discharge	$-20^{\circ}C \sim 60^{\circ}C$
7	Weight	Max. 82.0g	
8	Energy density	Volumetric	442 Wh/l
		Gravimetric	206 Wh/kg



No.	ITEMS		CRITERION	REMARKS
1	Discharge Characteristics	0.2C / 0.5C	100%	Charge : 0.5C, 4.2V, 3hrs or 0.1C Discharge : 3.0V cut-off Temperature : 25 °C
		0.5C / 0.5C	> 100%	
		1.0C / 0.5C	> 95%	
		2.0C / 0.5C	> 90%	
2	Temperature Characteristics	60°C	> 90%	Charge : 0.5C, 4.2V, 3hrs or 0.1C Discharge : 0.5C, 3.0V cut-off
		40°C	> 95%	
		25°C	100%	
		0°C	> 95%	
		-10°C	> 80%	
		-20°C	> 50%	
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%	



No.	ITEMS	TEST	CRITERION		TEST METHOD	RESULT	REMARKS
			STATE	CONDITION			
1	Overcharge	1A, 5V	Full charge	Fresh	SEC ver.6	NE, NF.	
2	Reverse Discharge	1A, -5V	Full charge	Fresh	UL1642	NE, NF.	
3	External Short Circuit	100mΩ	Full charge	Fresh	UL1642	NE, NF.	
4	Heating	60min. At 130°C	Full charge	Fresh	UL1642	NE, NF.	
5	Crush	13kN Pressure	Full charge	Fresh	UL1642	NE, NF.	

