

# Lithium battery test costs

Test costs shown below are approximate and subject to change – they have been calculated based on a single li-ion battery pack. Cost may vary depending on battery design.

## **UN38.3 – mandatory for transport**

Test charge: \$1500/model

Test sample quantity: 16pcs finished pack and 25pcs cells included in test cost

## **UL1642 – safety testing for cells**

**(Most cells already have this approval but this should be confirmed)**

Test charge: \$22500/model

Test sample quantity: 55pcs cells included in test cost

Factory audit charge: approx \$850/audit, required quarterly, charged quarterly

File management charge: approx \$1500/year, charged annually

## **UL2054 – safety testing for battery packs**

Test charge: \$20000/model

Test sample quantity: 55pcs cells included in test cost

Factory audit charge: approx \$850/audit, required quarterly, charged quarterly

File management charge: approx \$1500/year, charged annually.

For UL2054 battery pack approval the cell must first be confirmed as approved to UL1642.

## **IEC62133 – combined cell and pack approval**

Test charge: \$6350/model (includes cell and pack CB reports, and test report)

Test sample quantity: 73pcs cells and 36pcs finished pack included in test cost



## Cylindrical li-ion 18650

Voltage V	Capacity mAh	Avnet PN	Number of cells	Configuration	Manufacturer				Page
3.7	2250	YOB18650CA1S3J	1	1S1P	Dubilier				35
3.7	2600	VAR56637201016	1	1S1P	VARTA				6
3.7	3350	PICPALNB154	1	1S1P	Panasonic				37
3.7	3350	PICPAULLNB19	1	1S1P	Panasonic				38
3.7	4500	YOB18650CA2P3J	2	1S2P	Dubilier				35
3.7	5200	VAR56637502017	2	1S2P	VARTA				7
3.7	5200	VAR56637702099	2	1S2P	VARTA				19
3.7	6700	PICPAULLNB46	2	1S2P	Panasonic				39
3.7	10050	PICPAULLNB33	3	1S3P	Panasonic				40
3.7	13400	PICPAULLNB55	4	1S4P	Panasonic				41
7.4	2250	YOB18650CA2S3J	2	2S1P	Dubilier				35
7.4	2600	VAR56637502016	2	2S1P	VARTA				8
7.4	3350	PICPALNB76	2	2S1P	Panasonic				42
7.4	6400	RRC2057	4	2S2P	RRC				59
7.4	6700	WAT2S2PNCR18650B!A	4	2S2P	Panasonic				36
11.1	2200	WAT3S1PICR1865022F	3	3S1P	Samsung				36
11.1	3350	PICPALNB27	3	3S1P	Panasonic				43
11.1	2950	RRC2040	3	3S1P	RRC				56
11.1	6400	RRC20402	6	3S2P	RRC				60
11.1	8850	RRC2020	9	3S3P	RRC				61
14.8	2950	RRC2054	4	4S1P	RRC				58
14.8	3350	PICPALNB126	4	4S1P	Panasonic				44
14.8	3350	PICPALNB117	4	4S1P	Panasonic				45
14.8	6600	RRC2024	12	4S3P	RRC				63
14.8	6900	RRC20542	8	4S2P	RRC				62
25.2	6750	PICPAL1022	21	7S3P	Panasonic				48
25.2	20300	PICPAL1707	49	7S7P	Panasonic				49
25.2	29000	PICPAL1710	70	7S10P	Panasonic				50
36.0	14500	PICPAL1805	50	10S5P	Panasonic				51



## Li-ion button cells

Voltage V	Capacity mAh	Avnet PN	Number of cells	Configuration	Manufacturer				Page
3.7	60	VAR63125101521	1	1S1P	VARTA				22
3.7	85	VAR63145101501	1	1S1P	VARTA				25
3.7	120	VAR63165101521	1	1S1P	VARTA				28

Custom versions can be made available on a project basis - please consult your local Avnet Abacus representative

■ = UN 38.3

■ = IEC 62133

■ = UL 2054

■ = UL 1642