

Annex

	PolyU's Textile Lithium Battery	Existing Bendable Lithium Battery	Conventional Lithium Batteries
Cell Thickness	< 0.5 mm	0.4 to 0.7 mm	> 2 mm
Areal Capacity (cell)	1 to 3 mAh/cm ²	1 to 3 mAh/ cm ²	~ 3 mAh/ cm ²
Energy Density	120 to 460 Wh/L	100 to 200 Wh/L	250 to 700 Wh/L
Foldability	100% @ 1,000 folding cycles [i.e. capacity with no change after 1,000 folding cycles]	99% @ 1,000 folding cycles	Too rigid to fold
	Bending radius < 1 mm	Bending radius ~ 25 mm	Too rigid to bend
Charging Rate	0.2 to 1C [i.e. 1 to 5 hours needed to fully charge a battery]	0.2 to 2C [i.e. 0.5 to 5 hours needed to fully charge a battery]	0.5 to 2C [i.e. 0.5 to 2 hours needed to fully charge a battery]
Cycle Life	> 80% @ 500 charge/discharge cycles [i.e. capacity retained at > 80% after charging/discharging for 500 cycles]		