















# Leading Cell Performance Comparison for Drone Applications

High Energy Density and Best-in-Class Performance

Application	Model Number			GED (Wh/kg)	Capacity (Ah)	Nominal Voltage (V)	Energy (Wh)	Max Charge Rate (C)	Max Discharge Rate		Cycling (100% DOD, 80% SOH, 25°C)		Applied Pressure (PSI)
									Continuous	Pulse	Charge/Discharge	Cycle Life	
Energy Cell (E)		H10E	Li-ion	396	11.8	3.4	40.1	2	2	4	1C/1C	400 cycles	0
		SA03	Li-ion	395	11.8	3.4	40.3	C/3	1	3	0.3C/1C	300 cycles	15
		LNP0130M	Li-Metal	398	3.5	3.8	13.4	n/a	3	n/a	n/a	n/a	n/a
		MUL3A	Anode free	417	3.1	3.86	12	4	20	n/a	0.2C/1C	< 100 cycles	n/a
		Consumer Drone	Li-ion	316	2.8	3.5	9.76	1.8	3	-	-	> 300 cycles	0
		M65A	Li-ion	322	6.5	3.6	23.4	1	4	-	1C/1C	> 300 cycles	0
Balanced Cell (B)		H10B	Li-ion	380	11.4	3.4	39	4	6	8	1C/3C	400 cycles	0
		SA504	Li-ion	386	11.0	3.4	37.6	2	6	8	1C/3C	400 cycles	0
		Industrial Drone	Li-ion	274	10.1	3.7	37.6	2	4	-	-	> 400 cycles	0
Power Cell (P)		H10P	Li-ion	340	10.8	3.5	37.5	4	7	10	1C/3C	800 cycles	0
		SA08	Li-ion	353	11.0	3.4	37.6	3	5	8	1C/3C	250 cycles	0
		XNP0094J	Li-ion	302	9.4	3.6	33.8	2	5	-	1C/3C	> 700 cycles	n/a
		C380Y7	Li-ion	286	49.1	3.7	183	2	9	-	-	1000 cycles	0
		P50B	Li-ion	260	5.0	3.6	18	5	12	-	1C/100W	> 500 cycles	0
		P60C*	Li-ion	284	6.0	3.6	21.6	5	16	-	1C/100W	> 500 cycles	0

\*Data source: Company websites and disclosures

SES AI data link: <https://www.ses.ai/drones>; About: Energy - <https://voltt.aboutenergy.io/cell-library/list?q=ses>

Amprius data link: [https://amprius.com/documents/Amprius\\_Product\\_Catalog.pdf](https://amprius.com/documents/Amprius_Product_Catalog.pdf)

EGI data link: [https://www.enpower-greentech.eu/assets/batteries/downloads/us\\_letter-swift-datasheet\\_white\\_en.pdf](https://www.enpower-greentech.eu/assets/batteries/downloads/us_letter-swift-datasheet_white_en.pdf)

BEI Lab data link: <https://www.lumiaway.com/bei-lab/>; Cell Library - List View | Voltt

Ampace data link: <https://en.ampace.com/products/low-altitude-flight-product-matrix/drone>

Molicel data link: <https://www.molicel.com/product/> \*Tentative Data for P60C

