

Leading Pouch Cell Performance Comparison for Drone Applications

High Energy Density and Best-in-Class Performance

Application	Model Number			GED (Wh/kg)	Capacity (Ah)	Energy (Wh)	Max Charge Rate (C)	Max Discharge Rate (C)		Cycling (100% DOD to 80% SOH)		Applied Pressure (PSI)
								Continuous	Pulse	Charge/Discharge	Cycle Life	
Energy Cell (E)	 SES	H10E	Li-ion	396	11.8	40.1	2	2	4	1C/1C	400 cycles	0
	 amprius	SA03	Li-ion	395	11.8	40.3	C/3	1	3	0.3C/1C	300 cycles	15
	 EGI BATTERY	LNP0130M	Li-Metal	398	3.5	13.4	n/a	3	n/a	n/a	n/a	n/a
	 BEI	MUL3A	Anode free	417	3	12	4	20	n/a	0.2C/1C	< 100	n/a
Balanced Cell (B)	 SES	H10B	Li-ion	380	11.4	39	4	6	8	1C/3C	400 cycles	0
	 amprius	SA504	Li-ion	386	11.0	37.6	2	6	8	1C/3C	400 cycles	0
Power Cell (P)	 SES	H10P	Li-ion	340	10.8	37.5	4	7	10	1C/3C	800 cycles	0
	 amprius	SA08	Li-ion	353	11.0	37.6	3	5	8	1C/3C	250 cycles	0
	 EGI BATTERY	XNP0120J	Li-ion	295	12	43.2	2	5	10	1C/3C	> 700	n/a

*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

BEI Lab data link: <https://www.lumiaway.com/bei-lab/>

EGI data link: https://www.enpower-greentech.eu/assets/batteries/downloads/us_letter-swift-datasheet_white_en.pdf;

<https://voltt.aboutenergy.io/cell-library/list?q=egi>

