ZeroJet Semi-Solid-State Battery

As part of the launch of our Generation 3 Jet system, we are delighted to offer the world's first semi-solid-state LiFePO4 marine battery system. Specifically designed to partner with our industry leading electric jet systems, benefits of our new battery solution include:

1. Industry leading power to weight
2. Smaller form factor for more flexible boat integration
3. Opportunity to sell "range-extending" upgrades, a concept proven popular in the automotive industry
4. Improved redundancy (running multiple batteries in parallel)
5. Improved safety from semi-solid-state cells and LiFePO4 chemistry
6. Improved 5 year warranty

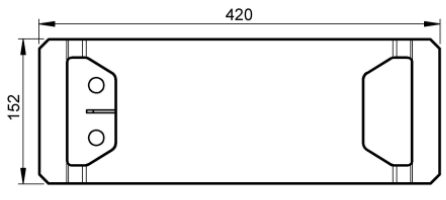
Single Battery Unit – 2.7kWh, 21kg

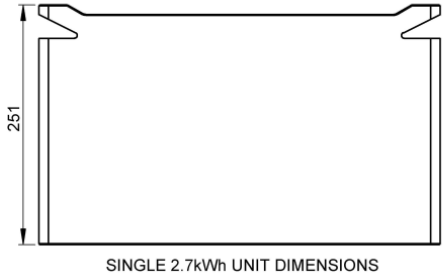
Nominal Voltage	51.2V
Nominal Capacity	53.7Ah (2,788Wh)
Dimensions (mm)	420L x 252H x 150D mm (Single 2.7kWh brick)
Approx weight	21 kgs
IP Rating	IP67 with data terminal caps in place
Cell Type	Automotive EV Grade A Lithium Iron Phosphate 3.2V 53.4Ah solid state cell
Max. Con. Discharge A	150A for 48V
Peak Discharge A	180A for 48V (2s)
Communication	CAN BMS NMEA Protocols, Bluetooth App combines Multiple Batteries
Marine ABYC Compliance	CAN with NMEA, wired outputs "Stop Charge", "Stop Discharge"
Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance
Turning On/Off	Battery Push Button (Remote Mount Option)
Charge Temp	-5°C to 55°C (28°F to 131°F)
Discharge Temp	-20°C to 60°C (-4°F to 140°F)
Storage Temp	-20°C to 45°C (-4°F to 113°F)

Battery Units in Parallel

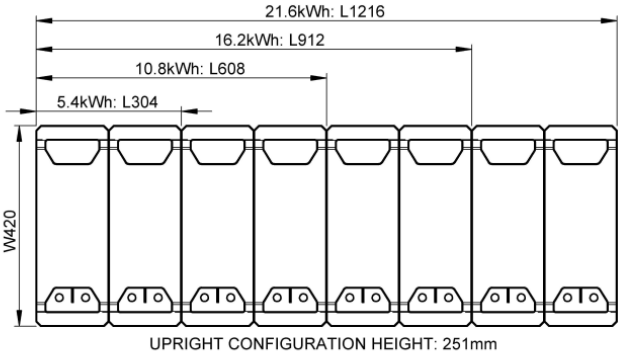
Number of Units	Capacity (kWh)	Weight (kg)	ZJ System Compatibility			Range (Nm)*	
			15kW (20hp)	22kW (30hp)	30kW (40hp)	@16 knots	@4 knots
1	2.7	21	×	×	×		
2	5.4	42	✓	×	×		
3	8.1	63	✓	✓	×		
4	10.8	84	✓	✓	✓	10	24
5	13.5	105	✓	✓	✓		
6	16.2	126	✓	✓	✓	15	36
7	1	147	✓	✓	✓		
8	22.3	168	✓	✓	✓	20	48

Dimensions and Arrangements

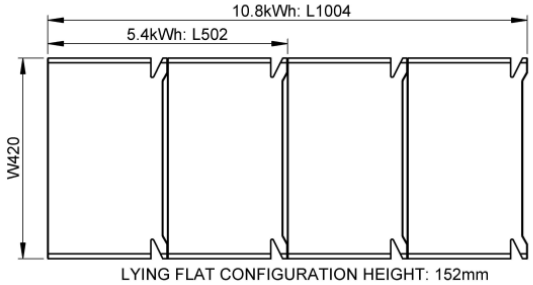




SINGLE 2.7kWh UNIT DIMENSIONS



UPRIGHT CONFIGURATION HEIGHT: 251mm



LYING FLAT CONFIGURATION HEIGHT: 152mm

Stackable Interlocking Geometry

*Estimate based on 3.3m RHIB with two people (total weight of boat, system and payload 450kg)