

Advanced  
**Li-ion**  
Batteries



**Salient Features:**

- High Energy Density
- Long Life Cycle
- Fast Charging
- Light Weight
- Telematics-Enabled
- Easy Serviceability
- Efficient Cell Balancing
- Customized BMS
- Active Liquid Cooling



**JBMG**, is a market leader in ultra-fast charging and multifacet battery systems, which provides design, development, manufacturing, sales and after-sales services for all application needs. With different product offerings depending on customer mission profile and requirement for EVs (Electrical Vehicles), our battery packs are intelligent and modular, with unique chemistry for high energy density, light weight and high DOD. Our products are AIS-038 Rev-02 & UN38.3 certified.

## KEY HIGHLIGHTS OF OUR BATTERY

- Fully automatic cell to module and module to pack manufacturing facilities with robotics laser welding of cells with 2.5 GWh capacity.
- Equipped with world-class industry manufacturing execution system (4.0 MES) and product traceability system.
- State-of-the-art product testing reliability and quality system inspection.

### 53.5 Ah Cell Type

TECHNICAL SPECIFICATION	E-BUS/E-CV
Cell Type	Pouch / Prismatic
Cell Technology	Li-ion
Cooling System	Liquid Cooling
Nominal Energy (Kwh)	20-42.7 KWh
Energy Density (Wh/Kg)	150-250 KWh
C-Rate	Up to 2C Charge
	Up to 2C Dis-Charge
Cathode Technology	NMC / LTO / LFP
Ingress Protection	IP-68
Dimension (L x W x H) mm	1060 x 660x 240
Weight (Kg)	202± 5
No Internal/External Joint	(SAE-15.82)
Explosion Valve Pressure (kPa)	≥600
Safety	Manual Fuse Disconnect (MSD)
	Short Circuit Protection
Operating Temperature (°C) / Humidity (%) RH	Discharge-20 ~ 55/ ≤ 90
	Charge- 0~ 55/ ≤ 90
Advance Battery Management system	<ul style="list-style-type: none"> <li>• SOC</li> <li>• SOH</li> <li>• Cell Voltages</li> <li>• Cell temperature</li> <li>• Smoke Sensor</li> </ul>
Local Electronic Control Unit	Local Control Limit with Daisy Chain Connection
Communication With Master BMS	CAN 2.0
Cell Balancing	Passive
Coolant Capacity (L)	1.5
Life Cycle	≥5000@25°C, 1C1D,
EOL	80%
Certification	IEC 100.03