

Advanced

# Li-ion

Batteries

Gen 1.0



## 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 multifaceted 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.
- 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.

TECHNICAL SPECIFICATION	E-BUS/E-CV
Cell Type	Pouch (Gen-1.0)
Cell Technology	Li-ion
Cooling System	Liquid Cooling
Nominal Energy (kWh)	22/33.57 kWh
Energy Density (Wh/Kg)	≥ 180
C-Rate	Up to 1C Charge Up to 1C Dis-Charge
Cathode Technology	NMC / LFP
Ingress Protection	IP-68
Dimension (L x W x H) mm	1060 x 660x 240
Weight (Kg)	142± 5/205± 5
No Internal/External Joint	(SAE-15.82)
Explosion Valve Pressure (kPa)	10 ± 3
Safety	Manual Fuse Disconnect (MSD) Short Circuit Protection
Operating Temperature (°C) / Humidity (%) RH	Discharge-20 ~ 55/ ≤ 85% Charge- 0~ 55/ ≤ 85%
Advance Battery Management system	<ul style="list-style-type: none"> <li>• SOC</li> <li>• SOH</li> <li>• Cell Voltages</li> <li>• Cell temperature</li> </ul> • Energy Measurement
Local Electronic Control Unit	Local Control Unit with Daisy Chain Connection
Communication With Master BMS	CAN 2.0
Cell Balancing	Passive
Coolant Capacity (L)	1.5 L
Life Cycle	≥ 3500 cycle @25°C, 1CC/1CD
EOL	80%
Certification	AIS038, ISO12405-04;2018, UN38.3, AIS004

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