ELECTROCHEM
INFINITE POWER

POWERING A SUSTAINABLE TOMORROW

E-Auto Powertrain

Three Wheeler Battery (L5)

Salient Features

- Long Life Cycle
- High Performance
- Vibration Resistant
- Fast Charging
- Fire and Waterproof Certified
- BMS with Automotive Grade Component
- Smart BMS with Highly Accurate SOC Estimation
- Bluetooth Application to Monitor Real Time Data
- Inbuild Data Storage and Remote Troubleshooting
- IP-67
- CAN Communication
- Cell Balancing

Technical Specifications

Models	EPS051200EV	EPS060200EV	EPS064100EV
Nominal Voltage (V)	51.1	60.8	64.0
Capacity (Ah)	200	200	100
No. of Cells in Series	16	19	20
No. of Cells in Parallel	2	2	1
Total No. of Cells	32	38	20
Cell Type	Prismatic	Prismatic	Prismatic
Chemistry	LFP	LFP	LFP

Electrical

Maximum cut-off voltage (V)	58.8(-1.6)	69.3(-1.9)	73.0(-2.0)
Minimum cut-off voltage (V)	44.8(+1.6)	53.2(+1.9)	56.0(+2.0)
Charging Voltage (V)	56.8	67.4	71.0
Charging Mode	CC-CV	CC-CV	CC-CV
Maximum charging current (A)	80.0	80.0	40.0
Maximum continuous discharging current (A)	150.0	150.0	100.0
Peak discharging current (A)	200.0	200.0	120.0
Cell over voltage protection	3.65	3.65	3.65
Cell over voltage release	3.55	3.55	3.55
Cell under voltage protection	2.8	2.8	2.8
Cell under voltage release	2.9	2.9	2.9
Cycle Life @0.3C/1C @25°C	2000	2000	2000
DOD Level (%)	90%	90%	90%

Protection

Cell under voltage protection	Yes	Yes	Yes
Cell over voltage protection	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes
Short circuit protection	Yes	Yes	Yes
Temperature protection	Yes	Yes	Yes

Temperature

Working Temperature (°C)	10 to +55	10 to +55	10 to +55
Storage Temperature (°C)	10 to +35	10 to +35	10 to +35

Communication

Bluetooth For Mobile Application Showing Real Time Data
RS485 / CAN Protocol Communication For Telematics

Others

Dimension (mm) LxWxH	614X508X270	715X458X271	740X225X287
Weight (Kg)	100 (Approx.)	120 (Approx.)	64 (Approx.)
Power Connector	HVP200A	HVP200A	HVP100A
Signal Connector	EPSLINK LP24/12	EPSLINK LP24/12	EPSLINKO LP12/12

E-Rickshaw Powertrain

Three Wheeler Battery (L3)

Salient Features

- Long Life Cycle
- High Performance
- Vibration Resistant
- Fire and Waterproof Certified
- Inbuild Data Storage and Remote Troubleshooting
- BMS with Automotive Grade Component
- Smart BMS with Highly Accurate SOC Estimation
- Bluetooth Application to Monitor Real Time Data
- Inbuilt Communication Based SOC Indicator
- Cell Balancing
- CAN Communication

Technical Specifications

Models	EPS051100EV	EPS060100EV(i)	EPS060100EV(ii)	EPS064100EV
Nominal Voltage (V)	51.2	60.8	60.8	64.0
Capacity (Ah)	100	100	100	100
No. of Cells in Series	16	19	19	20
No. of Cells in Parallel	1	1	1	1
Total No. of Cells	16	19	19	20
Cell Type	Prismatic	Prismatic	Prismatic	Prismatic
Chemistry	LFP	LFP	LFP	LFP

Electrical

Maximum cut-off voltage (V)	58.8(-1.6)	69.3(-1.9)	69.3(-1.9)	73.0(-2.0)
Minimum cut-off voltage (V)	44.8(+1.6)	53.2(+1.9)	53.2(+1.9)	56.0(+2.0)
Charging Voltage (V)	56.8	67.4	67.4	71.0
Charging Mode	CC-CV	CC-CV	CC-CV	CC-CV
Maximum charging current (A)	40.0	40.0	40.0	40.0
Maximum continuous discharging current (A)	80.0	100.0	100.0	100.0
Peak discharging current (A)	120.0	120.0	120.0	120.0
Cell over voltage protection	3.65	3.65	3.65	3.65
Cell over voltage release	3.55	3.55	3.55	3.55
Cell under voltage protection	2.8	2.8	2.8	2.8
Cell under voltage release	2.9	2.9	2.9	2.9
Cycle Life @0.3C/1C @25°C	2000	2000	2000	1500
DOD Level (%)	90%	90%	90%	90%

Protection

Cell under voltage protection	Yes	Yes	Yes	Yes
Cell over voltage protection	Yes	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes	Yes
Short circuit protection	Yes	Yes	Yes	Yes
Temperature protection	Yes	Yes	Yes	Yes

Temperature

Working Temperature (°C)	0 to +55	0 to +55	0 to +55	0 to +55
Storage Temperature (°C)	10 to +35	10 to +35	10 to +35	10 to +35

Communication

Bluetooth For Mobile Application Showing Real Time Data
RS485 / CAN Protocol Communication For Telematics

Others

Dimension (mm) LxWxH	433X322X287	740X225X287	505X322X292	740X225X287
Weight (Kg)	55 (Approx.)	60 (Approx.)	60 (Approx.)	64 (Approx.)
Power Connector	HVP100A	HVP100A	HVP100A	HVP100A
Signal Connector	EPSLINKO LP12	EPSLINKO LP12	EPSLINKO LP12	EPSLINKO LP12

Established in 2014, Electrochem Power Systems Pvt. Ltd. stands as a pioneering force in the realm of battery solutions, catering to both individual consumers and industrial sectors. Our services encompass the sale of new batteries and tools along with the repair and revitalization of old ones to prolong their lifespan and reduce lead-based pollution. Furthermore, our expertise extends to the manufacturing of chemical additives and charging equipment, tailored to meet the demands of electric vehicle applications across diverse sectors. As an integral part of Salasar Techno Engineering Limited, renowned for its comprehensive steel solutions that encompass engineering, design, procurement, fabrication, galvanization, and EPC services, we leverage this synergy to position ourselves as leaders in the Indian market for high-quality EV batteries.

CONTACT US

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