

3 Wheeler E-Mobility Solutions



SULTAN 3 Wheeler Li-On Battery



Aapke Lambe Safar ka Saathi
SULTAN
3 Wheeler Battery

Servotech's high-density 3-wheeler batteries deliver reliable, long-range power with minimal maintenance. Lightweight and durable, they enhance vehicle efficiency ensuring more uptime, higher earnings, and complete peace of mind for drivers.

ZEST 2/3 Wheeler Battery Charger

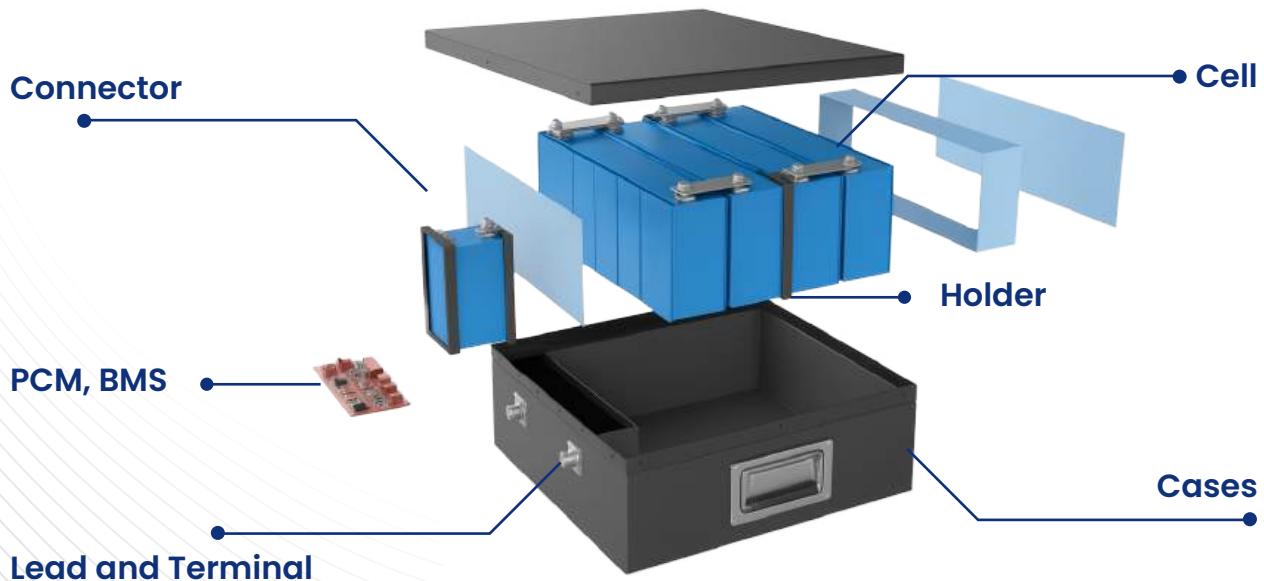
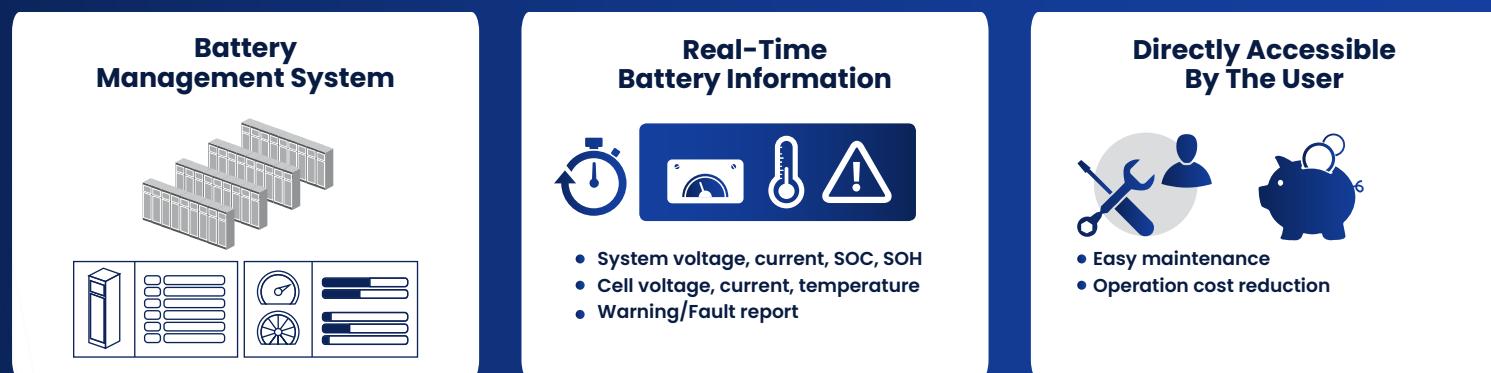
zest
2/3 Wheeler Battery Charger



Servotech's 3-Wheeler Battery Charger delivers fast, efficient, and reliable power for e-rickshaws and e-autos. Featuring IP20 protection and smart technology, this durable charger maximizes battery life and minimizes downtime, ensuring peak productivity and peace of mind for fleet owners.

3 Wheeler Li-ion Battery

1200+*
Cycles

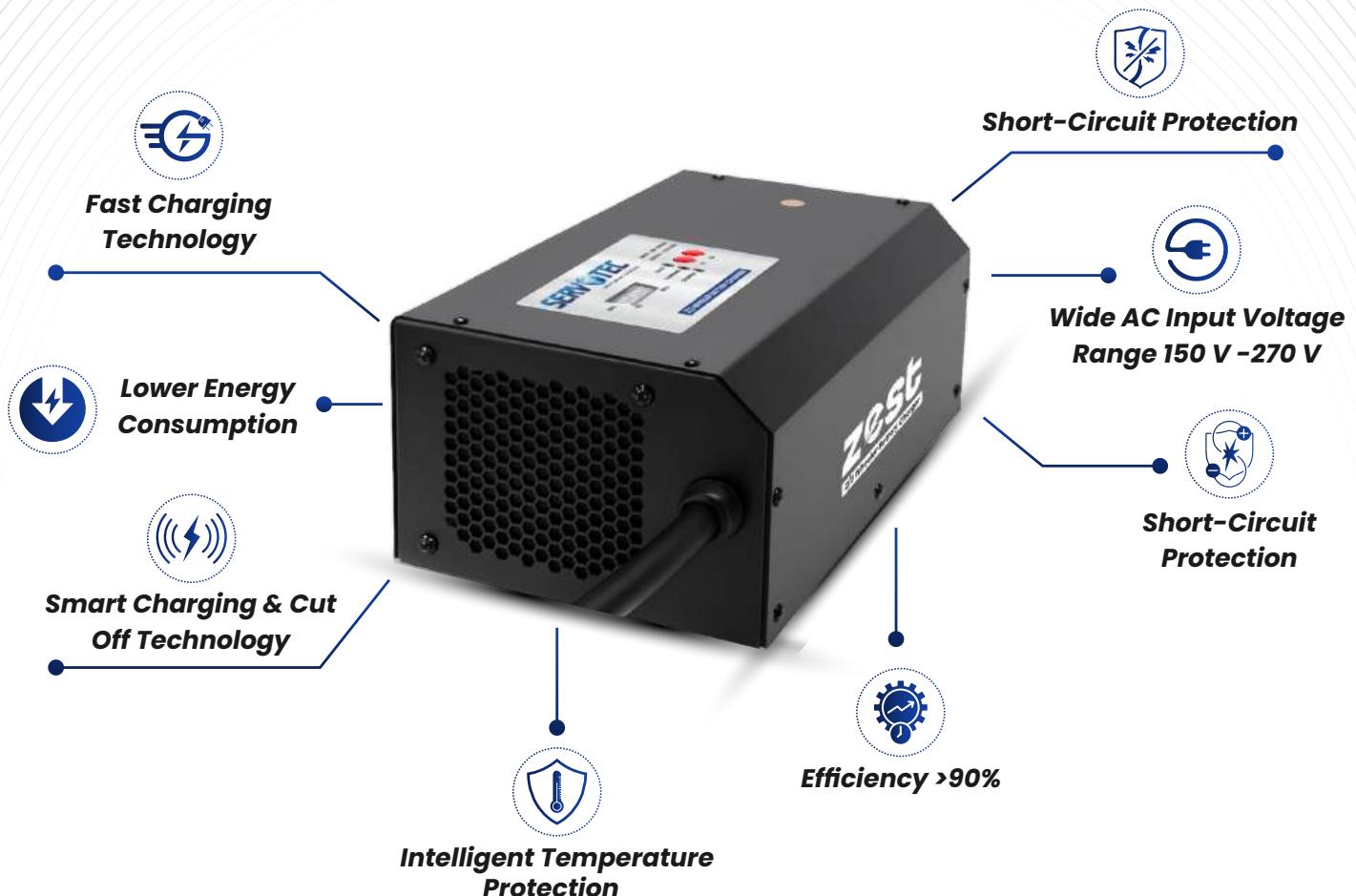




Product Specification

Battery Model	51.2V 105Ah	64V 105Ah
Application	3W	3W
Cell Chemistry	LFP	LFP
Cell specification	3.2V 100Ah	3.2V 100Ah
BMS Type	Smart	Smart
Bluetooth Connectivity	Yes	Yes
Energy (kWh)	5.37	6.72
Nominal Voltage	51.2V	64V
Rated Capacity	105Ah	105Ah
Operating Range	46.4V~ 57.5V	58V~ 71.8V
Standard Charging Current (A)	25A	25A
Standard Discharging Current "C" Rate	c/2	c/2
Max. Discharging Current "C" Rate	1C	1C
Temperature Working Range (°C)	-10°C ~ 60°C	-10°C ~ 60°C
Charging		
Storage Temperature (°C)	25°C	25°C
Life Cycle (80%) DoD	1200 @25°C	1200 @25°C
Weight (Kg)	<50 Kg	<60 Kg
Type of Connector	SB 50 & SB75	SB 50 & SB75
IP Rating	IP67	IP67

2/3 Wheeler Battery Charger



Stable Charging even in Low Voltage

Adaptive Battery

Universal 3-wheeler Battery Charger NON CAN.

Reverse Battery

- Optimized for deep discharged battery
- Ingress protection IP20
- Efficient Heat Dissipation
- Air-Cool Design
- Original Anderson Connector

- Smart Fault Detection Alerts
- Compact & Lightweight



Charger Type	Off-Board
Input Nominal Voltage	230 VAC
Input Operating Range	160 VAC – 280VAC
Input Nominal Frequency	50 – 60Hz
Input Operation Frequency	47.5 – 52.5 Hz
Rated Power Output	1400W
Input Plug & Cable	3 Pin Plug (16 A) Moulded 3 Core – 1.5 Sq. mm. Meter Wire Length 1.5 meter AC side
Input Power Factor	Active PF Correction, PF > 0.95, ITHD < 5%
Max Input Current	10A
Output Nominal Voltage	51.2V
Output Voltage Range	36V~60V
Output Peak Voltage	57.6V ± 0.1V
Output Current	25A ± 2%
Ripple Voltage	< 1%
Output Plug & Cable (Power)	Anderson 2 Pin connector, 2 core 4sqmm, 1.5 meter DC side Part No: SBX50 (Anderson)
Charging Method	CC (<56V) & CV @56V
Battery Full Charge Cut-off	Voltage – 57.6V, Current – <2.5A
Charging Efficiency	> 90 %
Reverse Battery Protection	Electronically Protected – Charger Will Not Start Unless Battery Is Connected In Correct Polarity.
Soft-start	3 – 6s, from 5A to 25A
Input Supply Variation	± 10V
Charger Operating Temperature	0°C – 50°C
Humidity	5 ~ 95%
Cell Type	LFP
Communication	NON CAN (CAN optional)
IP Rating	IP20
Size	L x W x H – 300mm x 130mm x 90mm

LED Status

LED	State	Action
Green	Blinking	Charging
Red	Blinking	Recoverable Fault
Red	Solid	Permanent Fault (Need Power Reset to Recover)
Amber	Solid	Battery Full

Recoverable Faults LED Pattern

Blinking Times	Fault
1	Battery Disconnected
2	AC High/Low Fault
3	Over Current
4	Battery Over Voltage
5	Over Temperature

Bar Graph SOC LED Pattern

SOC	Pattern
0% or Battery Disconnected	None
UPTO 20%	2 LED
21%-40%	4 LED
41%-60%	6 LED
61% - 80%	8 LED
81% -100%	10 LED

When Charging Rightmost two LEDs will be blinking.

Switch Functions

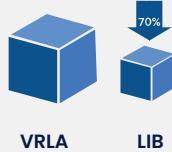
Switch	Action
S1	Force Start
S2	Reset

Switch Long Press

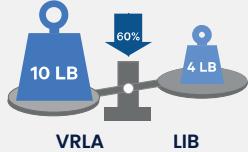
Why Servotech?



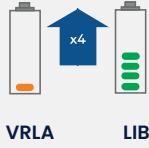
Saves Space



Weighs Less



Longer Life



Saves Cooling Cost



PAN India Channel Distribution Network

Servotech's Network

At Servotech we manage a smooth movement of goods from our Factories to the Distributors & Retailers across the country



Distributor Network

500+ Distributors across Metros & Mini-metros



Retailers

5000+ covering more than 350 Towns across India



Super Stockist

East India and South India



After Sales Service

Fastest FRT (2 hours) Across India



In House Design,
R&D , NPD Team



System & Process
Driven Approach



Cumulative 50 Years
of Experience in
Lithium Batteries

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Haryana - 131029

Safibabad Plant: Killa No. 14/6/1/2
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