

# 3 Wheeler E-Mobility Solutions



## SULTAN 3 Wheeler Li-On Battery



Aapke Lambhe 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



Eco-Friendly



Low Maintenance



Lightweight  
& Compact



Low Self  
Discharge Rate



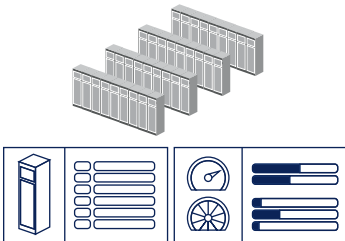
High Energy Density



More Charge Cycles



## Battery Management System



## Real-Time Battery Information



- System voltage, current, SOC, SOH
- Cell voltage, current, temperature
- Warning/Fault report

## Directly Accessible By The User

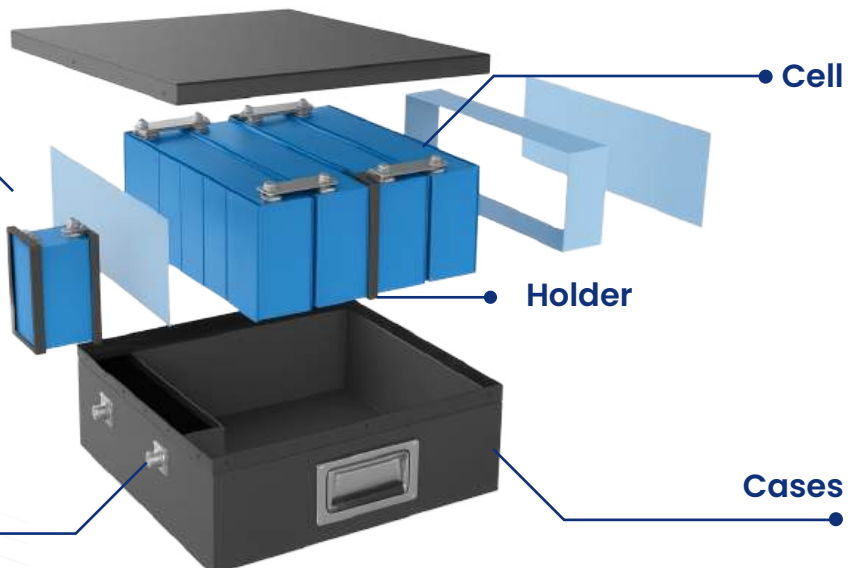


- Easy maintenance
- Operation cost reduction

Connector

PCM, BMS

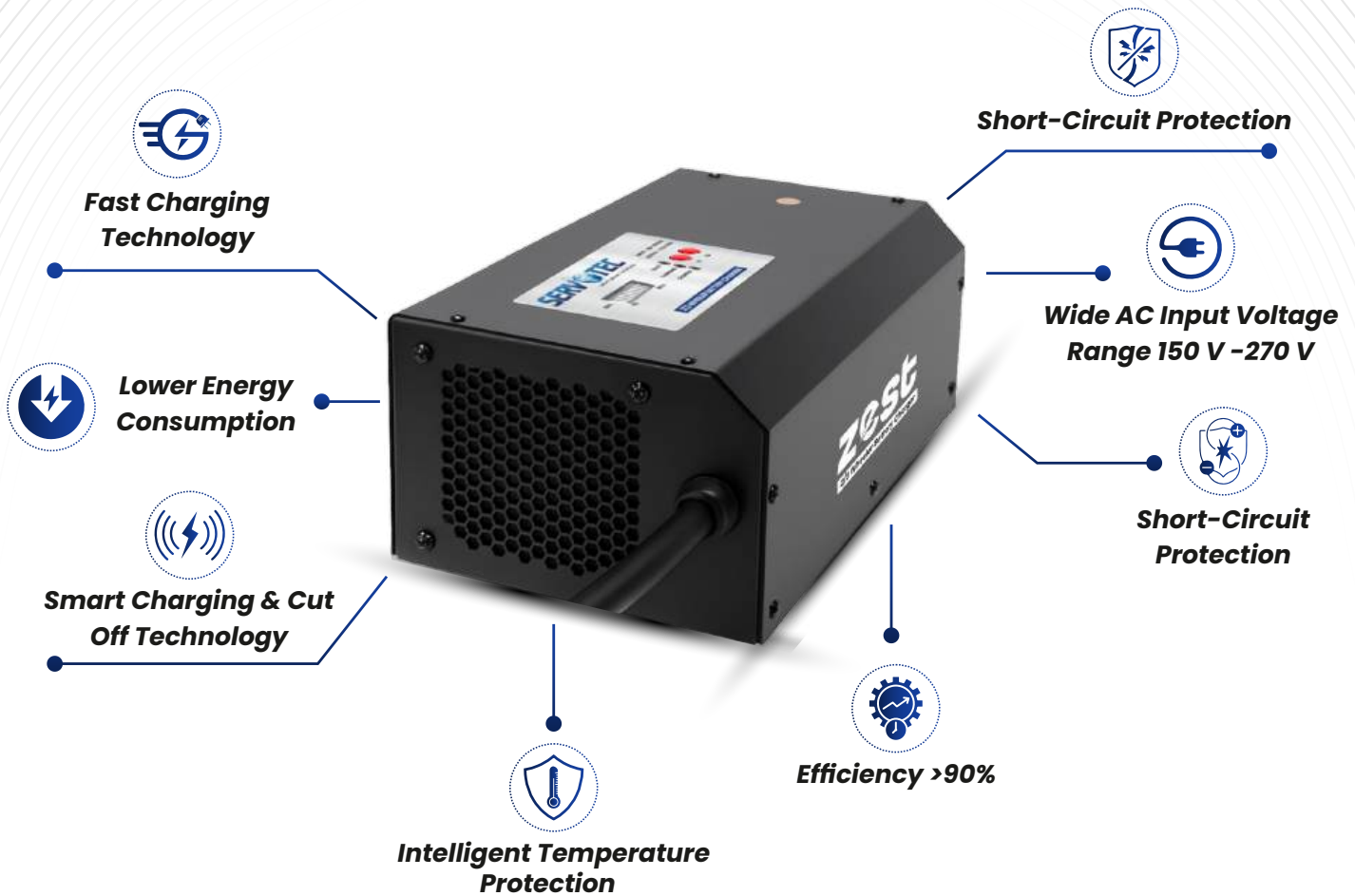
Lead and Terminal



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

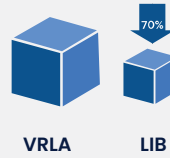
Switch	Action
S1	Force Start
S2	Reset

Switch Long Press

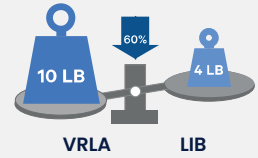
# Why Servotech?



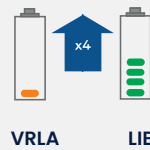
## Saves Space



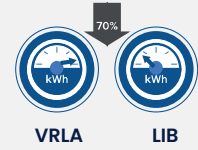
## Weighs Less



## Longer Life



## Saves Cooling Cost



## PAN India Fastest Service



**100+**  
Service  
Engineers



**10,000+**  
Associated  
Service Partners



# 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

**Safiabad Plant:** Killa No. 14/6/1/2  
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