SERVOTEC
smart power solutions

3 Wheeler
E-Mobility
Solutions

www.servotech.in
011-41183116

SULTAN 3 Wheeler Li-ion 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

Eco-Friendly

Low Maintenance

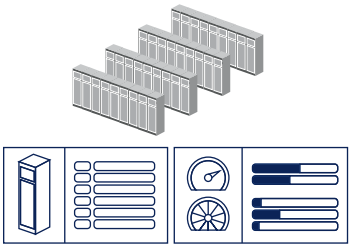
Lightweight & Compact

Low Self Discharge Rate

High Energy Density

More Charge Cycles

Battery Management System

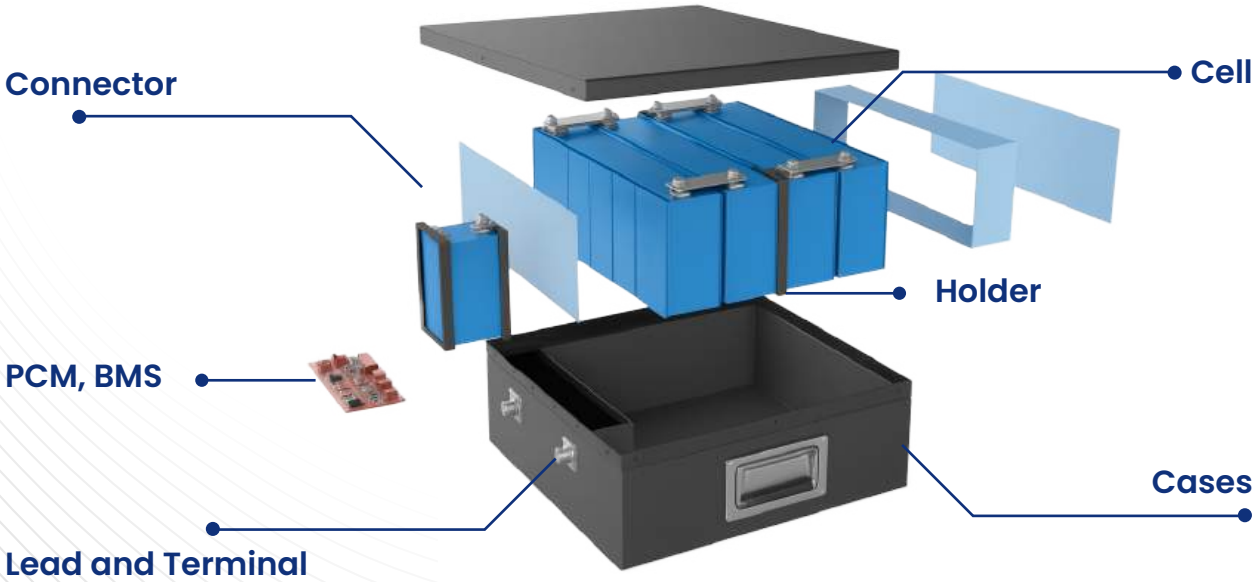


Real-Time Battery Information

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

Directly Accessible By The User

- Easy maintenance
- Operation cost reduction



SULTAN
3 Wheeler Battery

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
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

Fast Charging Technology

Lower Energy Consumption

Smart Charging & Cut Off Technology

Intelligent Temperature Protection

Efficiency >90%

Short-Circuit Protection

Wide AC Input Voltage Range 150 V -270 V

Short-Circuit Protection

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**

zest
2/3 Wheeler Battery Charger

Technical Specifications

Charger Type	Off-Board
Input Nominal Voltage	230VAC
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.

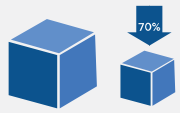
Switch Functions

Switch	Action
S1	Force Start
S2	Reset

Switch Long Press

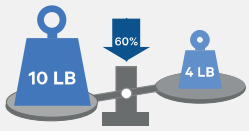
Why Servotech?

Saves Space



VRLA LIB

Weighs Less

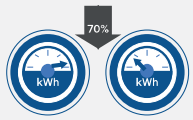


VRLA LIB

Longer Life

VRLA LIB

Saves Cooling Cost



VRLA LIB

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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Safiabad Plant: Killa No. 14/6/1/2 (0-3), 6/2/3 (5-13) Village-Safiabad, Pana Paposhian, Rai, Sonipat 131029 Haryana