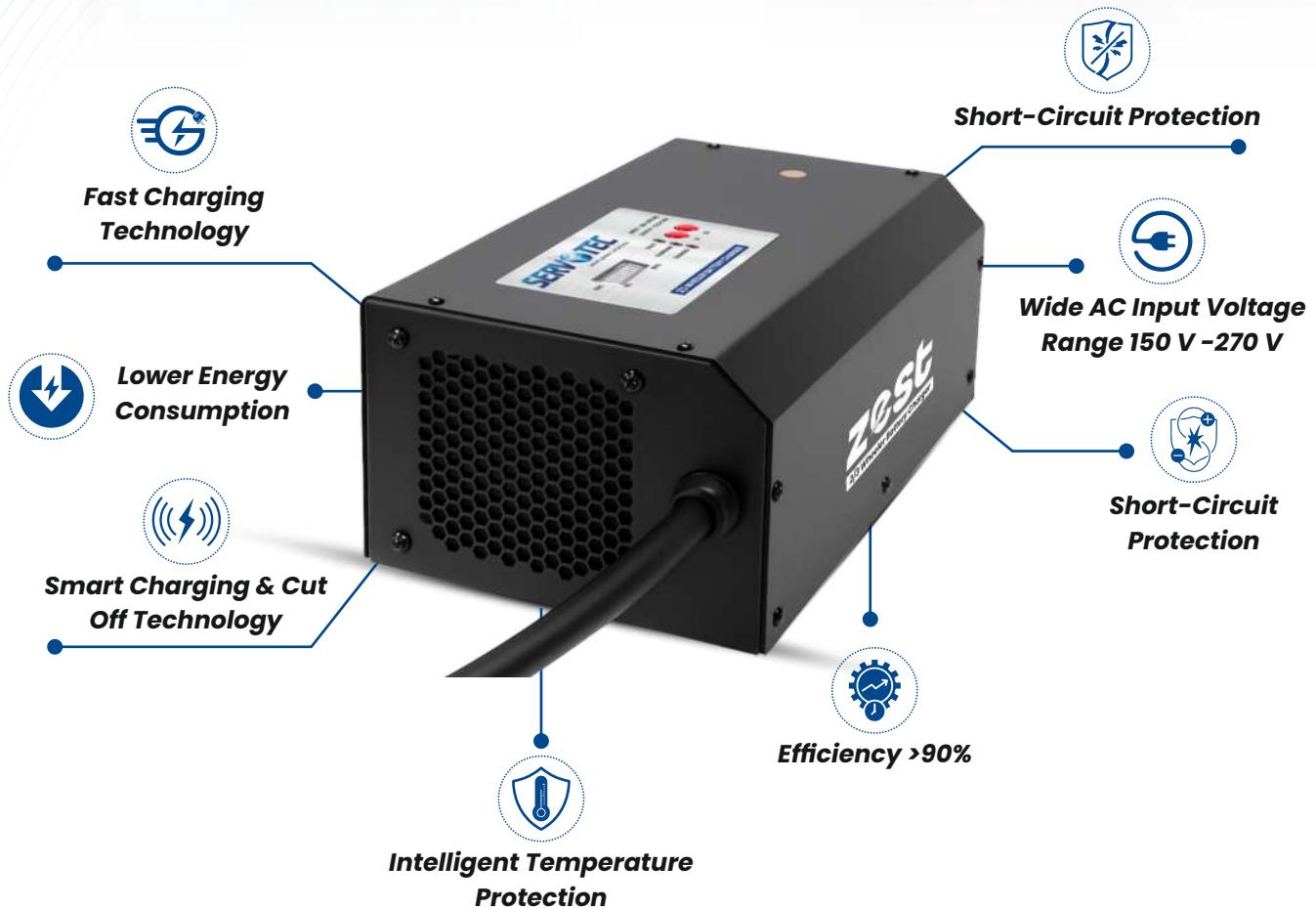


**zest**

2/3 Wheeler Battery Charger



# 3 Wheeler Lithium Battery Charger



- Stable Charging even in Low Voltage
- Adaptive Battery Charging
- Universal 3-wheeler Battery Charger NON CAN.
- PFC + LLC
- Reverse Battery Protection
- Optimized for deep discharged battery
- Ingress protection IP20
- Efficient Heat Dissipation
- Air-Cool Design
- Original Anderson Connector
- Smart Fault Detection Alerts
- Compact & Lightweight



## 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

# विकास की ओर नई उड़ान..

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