

zest

2/3 Wheeler Battery Charger



About Servotech Renewable

Servotech Renewable Power System Ltd. (NSE: SERVOTECH) is India's leading manufacturer of advanced clean energy solutions, specializing in solar Solutions, BESS and EV charging solutions. With a robust pan-India presence, agile manufacturing, and strong R&D capabilities, Servotech is driving India's transition toward a sustainable, energy-independent, and technologically empowered future. Through continuous innovation, strategic collaborations, and large-scale deployments, the company delivers reliable, high-performance solutions that support the nation's clean energy goals. Servotech's comprehensive portfolio spanning solar panels, inverters, Lithium batteries, and EV chargers reflects its commitment to engineering excellence and environmental stewardship. By aligning business growth with global sustainability standards, Servotech stands as a catalyst in shaping India's green energy transformation and powering a cleaner tomorrow.



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



Product Technical Specifications

| Specification | Off-Board Charger |
|--|---|
| 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 | 58.4V ± 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 | LxWxH - 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..

CONTACT US

Ph: 011-41183116, +91 97176 91800 |  +91 93113 13734

Email: servotech@servotechindia.com | Website: www.servotech.in

Servotech Renewable Power System Ltd.

Corporate Office : 806, 8th Floor, Crown Heights, Sector-10, Rohini, New Delhi - 110085

Warehouse: Khasra No. 8/5, 6, 14/2, 15/1, 16/2 Min & 17, Jakhauli Road, Jhundpur, Sonipat, Haryana - 131021

Reg. Add. & Kundli Plant: Khata No. 1970, Khewat No. 1672, Khasra No. 21/20/2/2, Revenue Estate, Kundli, P.S.Rai, Sonipat, Haryana - 131029

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

