

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



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

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