# General Specifications

**Document details:**

**Note: Specifications are updated from time to time to reflect changes in developmental process**

| General Specifications for Quark S Series | | | |
|---|---|---|---|
| Version | Date | Authors | Change content |
| V0 | 15-01-2024 | Pradeep | First release |
| V1 | 18-09-2024 | Pradeep | Specific details for the customer approval |
| | | | |



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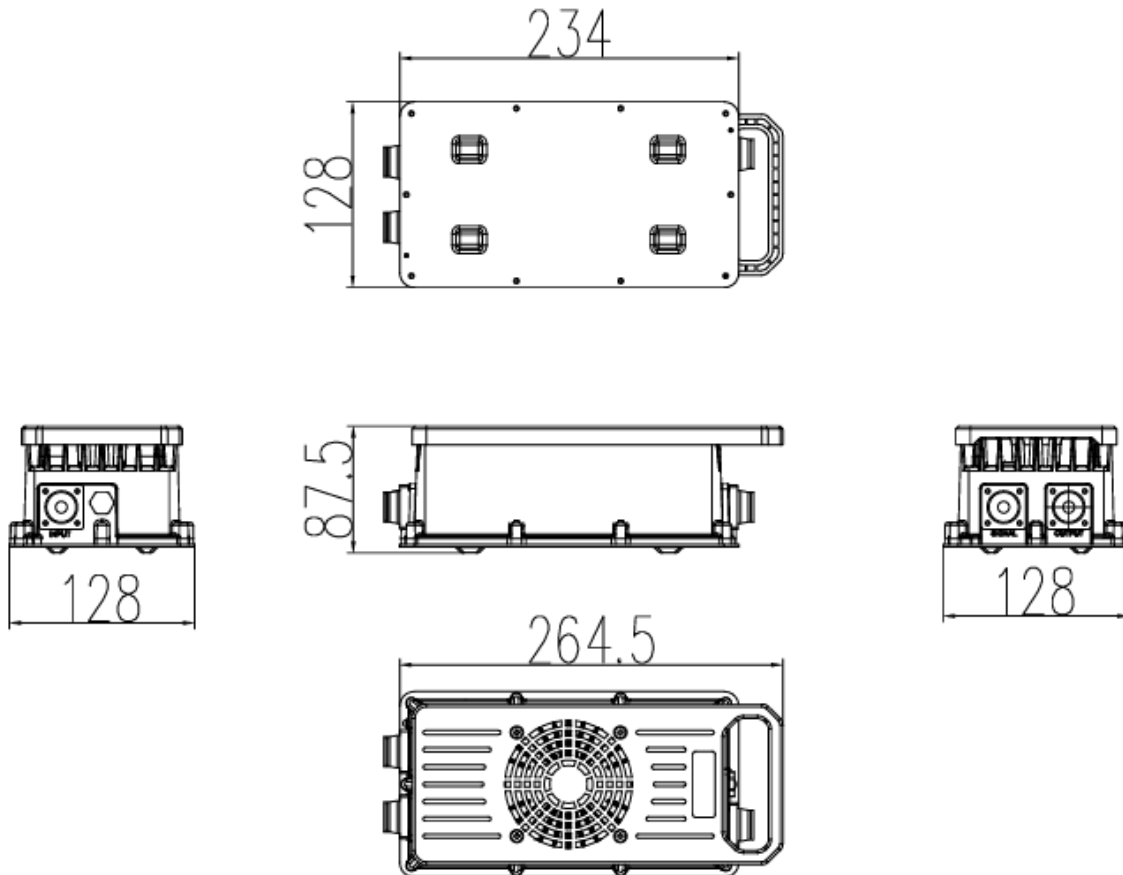
# Features

- Charger for Lithium ion Batteries
- Universal Voltage input
- Compact
- Rugged housing for All weather and environment operation
- LLC topology for efficient switching
- Multiple safety cutoffs
- Soft start

# Specifications

| Specification | | LW-S1500-4815 |
|---|---|---|
| Functional | Battery type | Lithium ion |
| | Vehicle type | Light Electric Vehicles like two wheelers, buggies etc |
| | Form factor | OBC |
| | Cooling | Forced air convection (Fan) |
| | Housing | Rugged Aluminium casting |
| | Communication | CAN 2.0b (customizable Baud rate) |
| | Charging profiles | CC/CV, Slave, CP etc |
| Dimension/ weight | Dimensions | 234 x 128 x 85mm |
| | Weight | < 3 Kg |
| Electrical/ Performance | AC input Phase | Single |
| | AC input voltage | 90-264 VAC single phase |
| | AC input frequency | 50-60 Hz |
| | Power Factor | >0.98 |
| | Peak Efficiency | > 92% @ full load, nominal conditions |
| | AC input max current | <8A |
| | DC output Peak voltage | 58.4 VDC |
| | DC output current (Rated) | 25 A |
| General/ Environmental | Operating Temp | -10°C to 45°C |
| | Storage Temperature | -20°C to 70°C |
| | Protection | OCP/OVP/OTP/SCP, Reverse Polarity, Thermal Derating |

| | IP | IP65 |
|---|---|---|
| | IK | IK08 |
| | Noise | <50db |
| | Shock | Shock proof - Potted |
| Cable and Connectors | AC cable length | 1500mm (can be customised) |
| | DC cable length | 1000mm (can be customised) |
| | PRCD | Optional |
| | AC connector | As per customer requirement |
| | DC connector | As per customer requirement |
| Surge and Harmonics | Harmonics | IEC 61000-3-2 |
| Indication | LED indication | Charging - Red: Fully charged - Green, Error - Red blinking |

# Dimensions