ALVOLTA
BUILT FOR POWER




# ALVOLTA LUNA-S 100V 20A MPPT SOLAR CONTROLLER

## ALV-10020B

### Key Features:

- 98% MPPT Conversion Efficiency
- Supports Various Battery Chemistries
- Voltage Stabilisation
- Advanced Safety Features
- Durable Design

### Suitable for:

3 YEAR WARRANTY

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### Specifications:

| | |
|---|---|
| System Voltage | 12 / 24V |
| Rated Charging Current | 20A |
| Battery Voltage Range | 9 - 32V DC |
| Maximum PV Open Circuit Voltage | 92V at 25°C |
| Maximum PV Input Power | 260W at 12V, 520W at 24V |
| Zero Load Loss | < 10mA |
| Connection Type | TR Screw Terminal |
| Maximum Cable Size | 20mm² |
| Charging Conversion Efficiency | ≤ 98% |
| MPPT Tracking Efficiency | > 99% |
| Temperature Compensation Factor | -3mV / °C/2V (for lead-acid batteries only) |
| Communication | Bluetooth, TTL and CAN (RV-C) |
| Operating Temperature Range | -35°C - +65°C |
| Ingress Protection | IP32 |
| Altitude | ≤ 3000m |
| Colour | Black |
| Dimensions (w x h x d) | 150 x 105.6 x 61.5mm |
| Weight | 0.65kg |
| Warranty | 3 Years |
| Protection Features | Battery Over-charging, Battery Over-discharge, Battery Reverse-polarity Interior Over-temperature, Over-current, PV Over-voltage, PV Reverse-polarity, PV Short-circuit Protection, TVS Lightning Protection and Reverse Charge Protection at Night |

*All data and specifications provided in this datasheet are tested under standard test conditions, and may deviate marginally from actual values. Alvolta and its associates reserve the right to make modifications to the provided information without notice. Alvolta maintains the goal to supply customers with the most recent information regarding its products.

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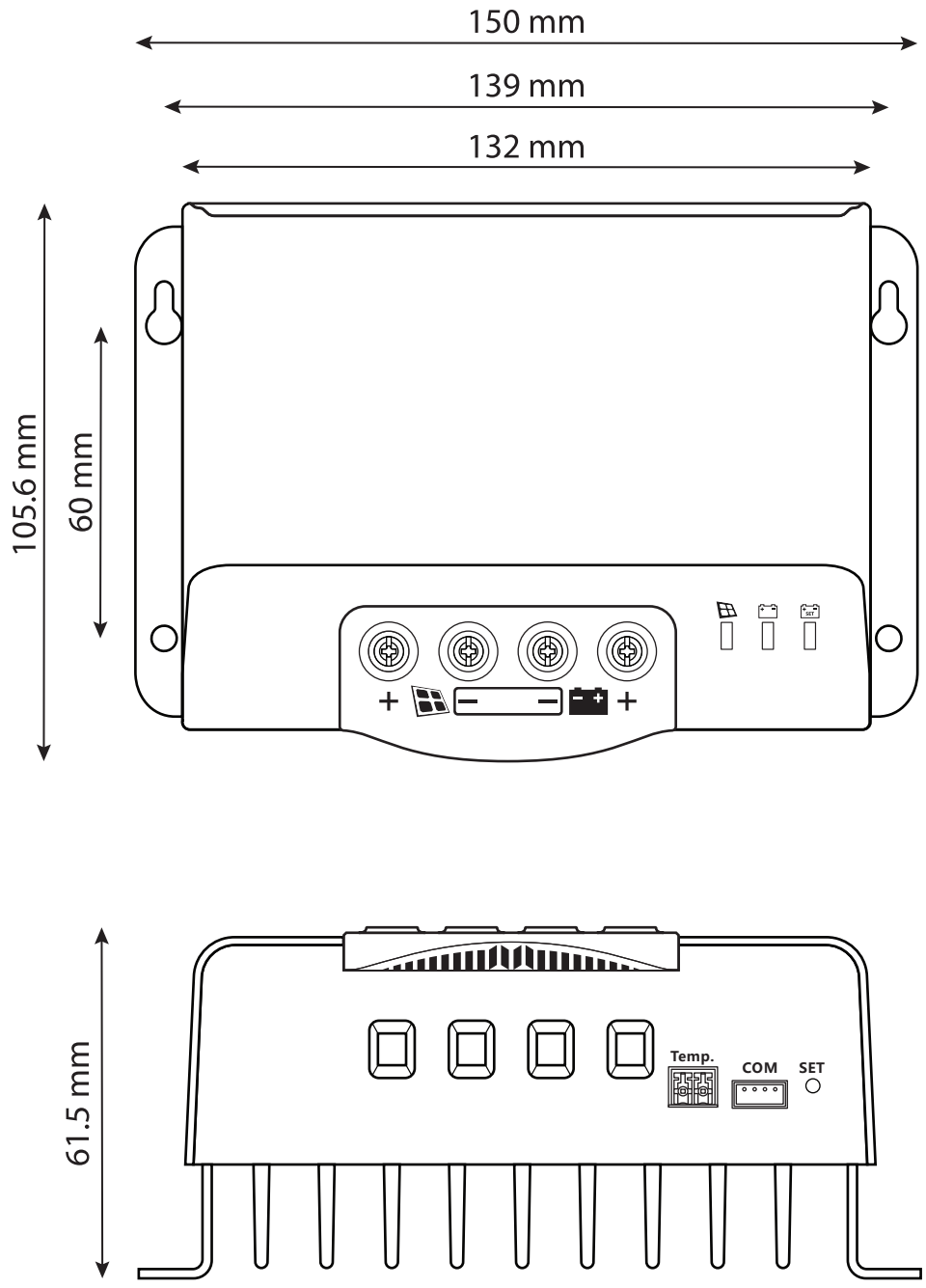
### Model Dimensions:




- Mounting hole size: 5mm