ALVOLTA
BUILT FOR POWER



ALVOLTA LUNA-S 100V 40A MPPT SOLAR CONTROLLER

ALV-10040B

Key Features:

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

Suitable for:

3 YEAR WARRANTY

ALVOLTA
BUILT FOR POWER

ALVOLTA LUNA-S 100V 40A MPPT SOLAR CONTROLLER

ALV-10040B

Specifications:

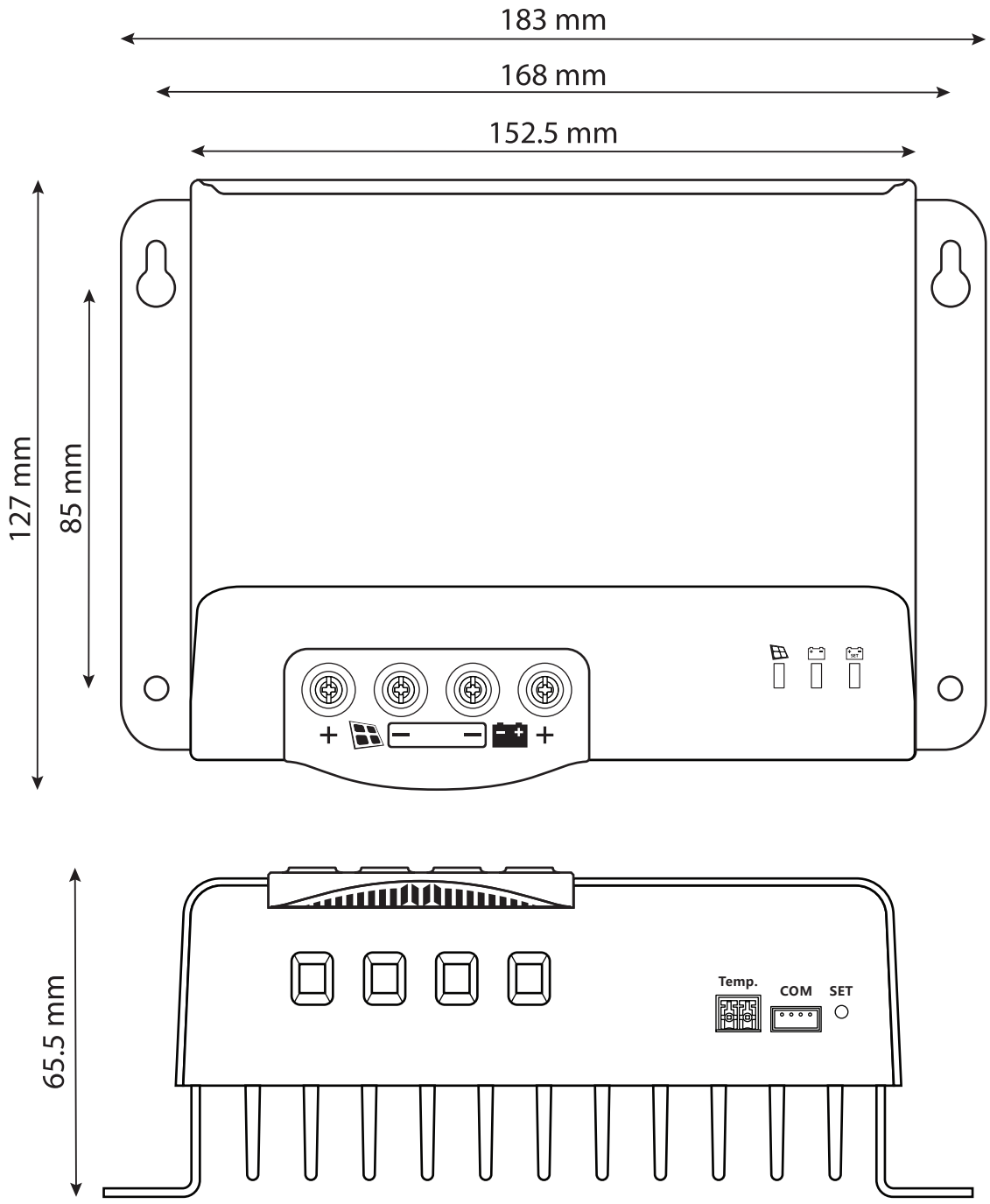
System Voltage	12 / 24V
Rated Charging Current	40A
Battery Voltage Range	9 - 32V DC
Maximum PV Open Circuit Voltage	92V at 25°C
Maximum PV Input Power	550W at 12V, 1100W at 24V
Zero Load Loss	< 10mA
Connection Type	TR Screw Terminal
Maximum Cable Size	10mm² (8AWG)
Charging Conversion Efficiency	≤ 98%
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)	183 x 127 x 65.5mm
Weight	1.04kg
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.

ALVOLTA LUNA-S 100V 40A MPPT SOLAR CONTROLLER

ALV-10040B

Model Dimensions:



- Mounting hole size: 5mm