ALVOLTA
BUILT FOR POWER



ALVOLTA LUNA-H 150V 60A MPPT SOLAR CONTROLLER

ALV-15060B

Key Features:

- 98% MPPT Conversion Efficiency
- Supports Various Battery Chemistries
- Built-in Bluetooth
- Advanced Safety Features
- Durable Design

Suitable for:

3 YEAR WARRANTY

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Specifications:

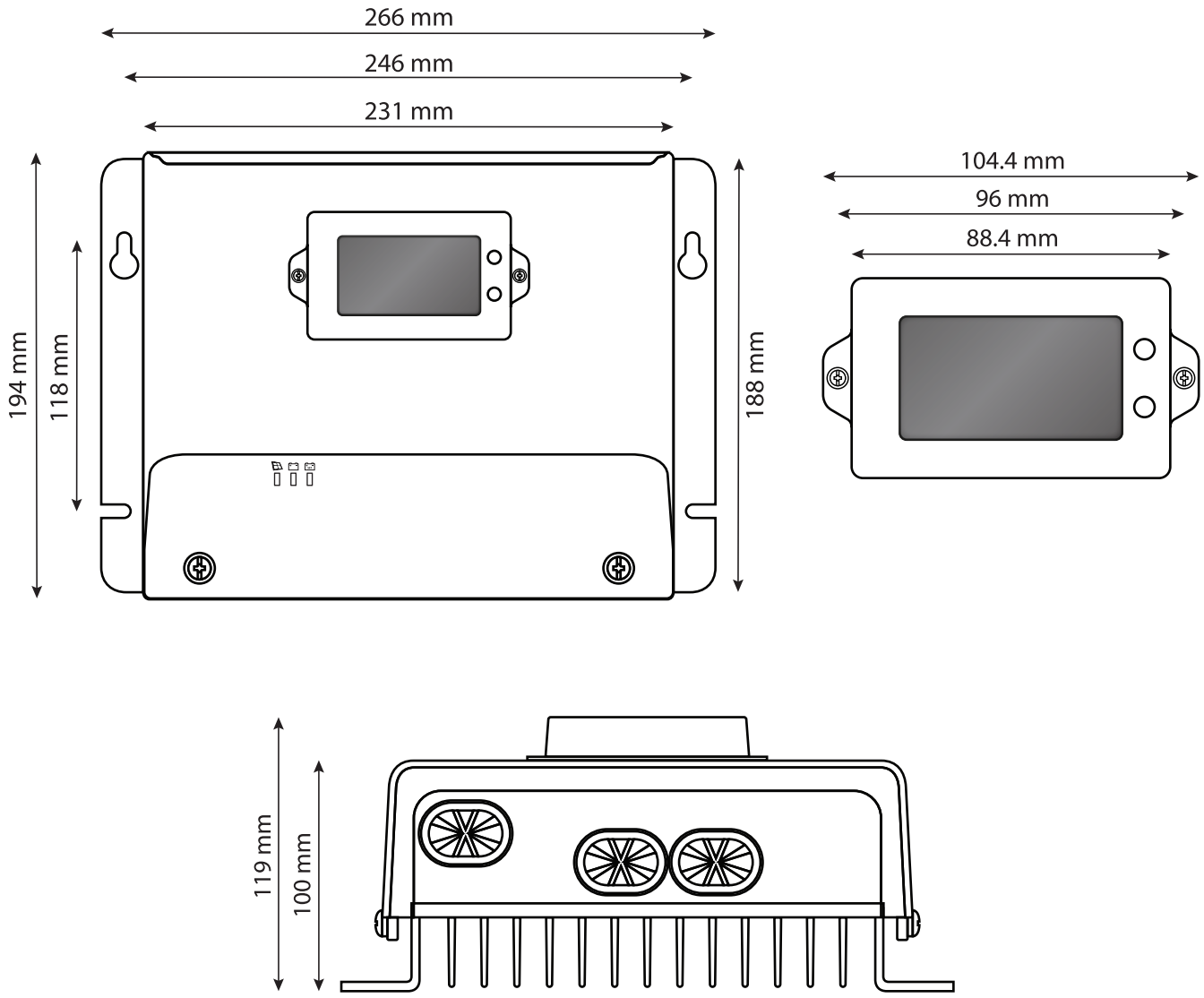
System Voltage	12 / 24 / 36 / 48V
Rated Charging Current	60A
Battery Voltage Range	9 - 64V DC
Maximum PV Open Circuit Voltage	150V
Maximum PV Short-Circuit Current	50A
Power of Solar Panel (12V)	800W
Power of Solar Panel (24V)	1600W
Power of Solar Panel (48V)	3200W
No-Load Loss	0.54W
Connection Type	TR Screw Terminal
Maximum Cable Size	13mm² (6 AWG)
Charging Conversion Efficiency	≤ 98%
MPPT Tracking Efficiency	> 99%
Temperature Compensation Factor	-3mV / °C/2V (for lead-acid batteries only)
Communication	TTL and Isolated RS485 (baud rate 9600, digital bit 3, stop bit 1, no check bit)
Bluetooth	Built-in Bluetooth, 4.0 BLE module
Internal Temperature Protection	Linear power reduction operation triggered by over-temperature
External Temperature Battery Sampling	Used for battery temperature compensation and battery temperature protection
Programmable Relay	DPST 10A / 250V AC ; 10A / 30V DC
Operating Temperature Range	-35°C - +65°C (no derating within 40°C)
Ingress Protection	IP32
Altitude	≤ 3000m
Colour	Black
Dimensions (w x h x d)	226 x 194 x 119mm
Weight	3.6kg
Warranty	3 Years
Protection Features	Battery Over-charging, Battery Over-discharge, Interior Over-temperature, Over-current, PV Anti-reverse 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: 12mm
- Wire specification: 20-2 AWG