



**ABYSS
BATTERY**

POWER YOUR PURSUIT.

**30V-90V INPUT TO
12V STEPDOWN**

CONVERTER



DATA SHEET

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AB-DC-SD

30V-90V to 12V Converter

ELECTRICAL SPECIFICATIONS

Rated voltage	60/72V
Voltage range	30-90V
Efficiency (type)	>93%
Voltage output	12V
Max. rated output	50A
Max. rated power	600W
Voltage regulation	±1%
Load regulation	2%

SAFETY SPECIFICATIONS

Short circuit protection	YES
Over current / temp protection	YES
Over voltage protection	YES
Waterproof	IP67

MECHANICAL SPECIFICATIONS

Working Temperature	-40°C to 80°C (-40°F to 176°F)
Size (W*H*D)	150×130×50mm (5.9×5.11×1.9 inch)
Weight	1.3 kg (2.8lb)
Cooling	Free Air Convection

KEY BENEFITS:

- Smart chip protection, anti-overheating, overcurrent protection:**
 Monitors the converter status (charge, discharge, current, temperature, etc.).
- Anti-shock, anti-drop, anti-moisture, anti-dust:**
 Can monitor the product status (charge, discharge, current, temperature, cycle life, etc.) and change the data for different applications.
- Internal resistance capacitor filter to withstand high temperature:**
 The converter features proprietary technology that monitors temperature, requiring no additional components. The entire process of temperature controlled is completely seamless. Large external fins help to dissipate heat.
- Non-isolated connection between Input and Output:**
 Current is able to flow directly between the two sides as they share a common ground. Connections are more space-efficient due to their compact design.
- Waterproof IP67:**
 IP67 represents one of the highest levels of protection offered by an IP rating. This rating provides: Complete protection against ingress of dust and airborne particles. Protection against water and liquids, up to and including immersion in up to one meter of water.

MARKET APPLICATIONS:



RV



MARINE



GOLF CART



CLEANING



LIGHT EV


 ENERGY
STORAGE

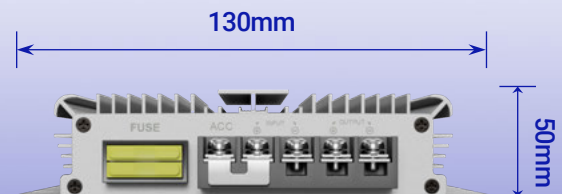
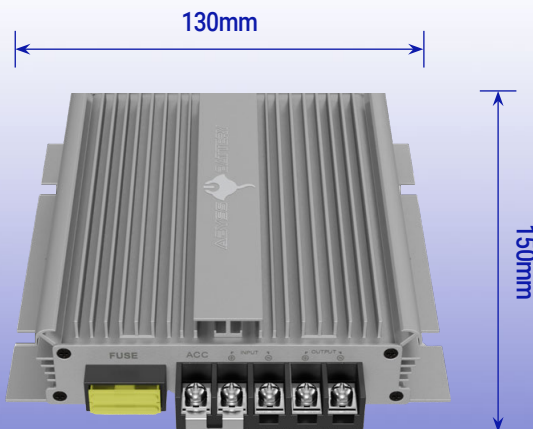

ROBOTICS



LIGHTING



DIMENSIONS:





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