

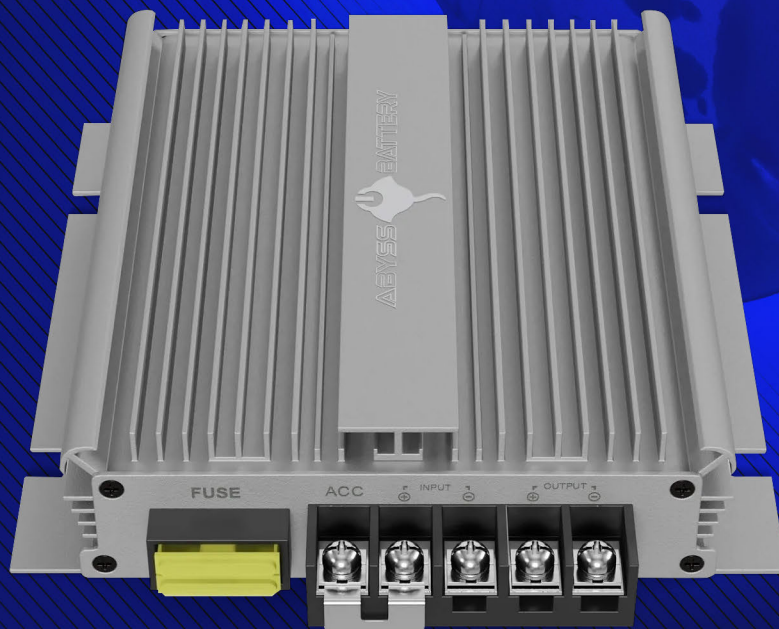


**ABYSS  
BATTERY**

POWER YOUR PURSUIT.

12V TO 43.8V  
10A DC-DC

**CHARGER**



USER MANUAL

[WWW.ABYSSBATTERY.COM](http://WWW.ABYSSBATTERY.COM)



## DESCRIPTION:

This is a fully automatic DC-DC charger that charges both your starting battery and **36V Trolling Motor Battery** from your outboard engines alternator, a power supply system designed for RVs, campers, and Boats, etc.

**DC-DC charging:** refers to charging your Axillary battery through an alternator / generator and starting battery.

1. While underway, the alternator from your outboard can quickly charge the 36-Volt trolling motor battery through the full power of our DC-DC charger.
2. The charger can charge the main battery according to the specified voltage and current by boosting or reducing the voltage to ensure that the main battery is in accordance with the standard operating requirements.

## FEATURES:

1. **Fully automatic charging:** In order to continuously charge the battery, the controller can always be connected to the starting battery, when the charging energy stops. When you stop or are stationary on your boat, the battery will not discharge in reverse.
2. Stable output voltage is 43.8V
3. ACC control port can turn off the output voltage
4. Intelligent chip with voltage wake-up function
5. 100% full rated power
6. 100% full stable output Current
7. 100% burn-in-test
8. IP67 waterproof Epoxy potting, Anti-vibration, Dust proof
9. Cooling by free air convection
10. Under voltage protection: Identify the starting voltage of the car and wake up the
11. Overshoot protection
12. Over temperature protection: the operating temperature range of the shell is -40-85°C

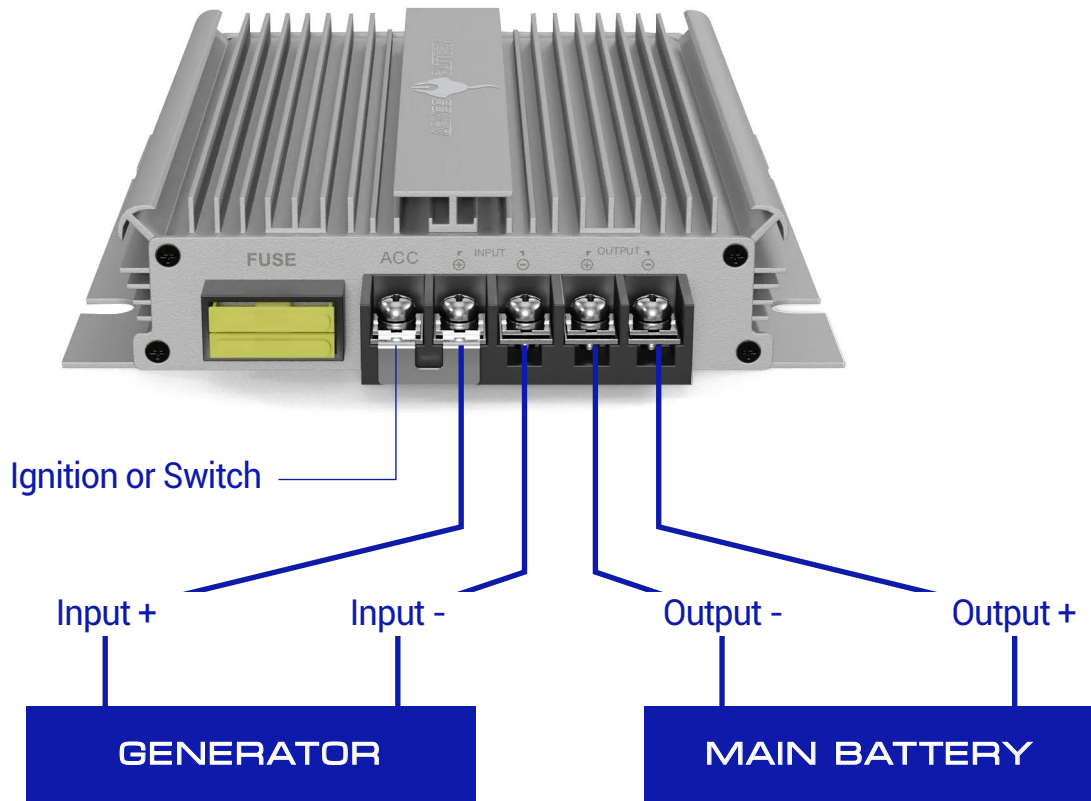


## INSTALLATION STEPS:

1. Turn off all power and load switches.
2. Connect the OUTPUT "+" to the positive pole of the load device or auxiliary battery. Connect the OUTPUT "-" to the negative pole of the load device or auxiliary battery
3. Connect the INPUT "+" to the main battery or generator positive pole and the INPUT "-" to the main battery or generator negative pole
4. Turn on the power and load switch, and the converter works normally.



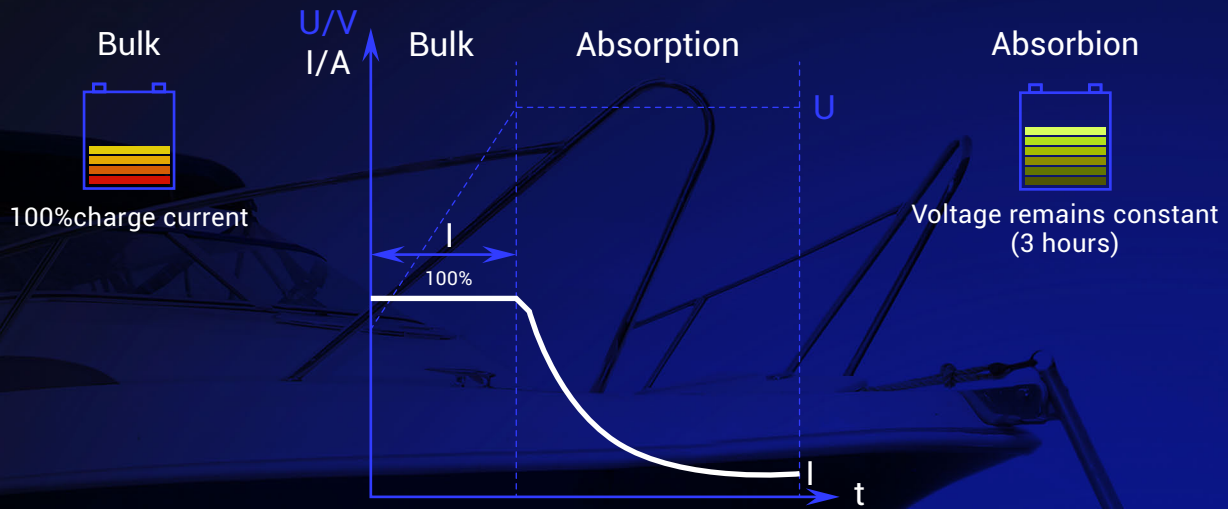
## CONNECTION:



## NOTE:

1. Wires: 16 square wires are used to connect the input, and 4 square wires at the output end.
2. If your wiring connection is more than 2 meters, a thicker gauge wire is recommended.
3. The Input Voltage should equal or more than 40A.
4. ACC : The charger starts to work only after the control voltage is applied to the control terminal, and the voltage range can be 3V~36V (Can directly connected to the 12V input terminal if No additional control is necessary.)
5. Make sure all polarities are correct before wiring, reverse connection will burn out the converter.
6. DO NOT connect input and output in reverse.
7. Make sure the battery capacity is large enough to provide enough power. If the input energy is insufficient, the voltage will automatically decrease
8. Ensure that the installation environment is well ventilated to avoid over temperature protection and limit current output
9. Cables need to be fitted with large current lugs and securely attached
10. Please install the charger as close to the main battery as possible, and keep the surroundings clean, tidy and ventilated.

## OUTPUT CURRENT CURVE:



## PARAMETER SPECIFICATIONS:

Model	12V-43.8V 10A DC-DC Charger
Input Voltage	12VDC
Output Voltage	43.8VDC
Output Current	10A
Output Power Max(W)	438W
Efficiency	90%
Enclosures	IP67
Dimension	150*130*50MM
Net Weight	2kg
Case Operating Temperature	-40~85°C
MTBF	100,000 hours
Characteristic 1	100% full rated power and stable output voltage 100% burn-in test and 4 times quality inspection





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