

User Manual

The converter steps up the voltage from 12V lead-acid/lithium battery vehicles to 24V or 28V DC Voltage

Features

- 24V or 28V stable output voltage (Refer to chart)
- Wide input voltage range
- Max efficiency up to 95%
- Less 0.04A no-load consumption
- Fully sealed to protect against water, dust, and vibration (IP68)
- Low voltage protection, Output over voltage protection, Overload protection, Over temperature protection
- 2-3 years warranty

Warning

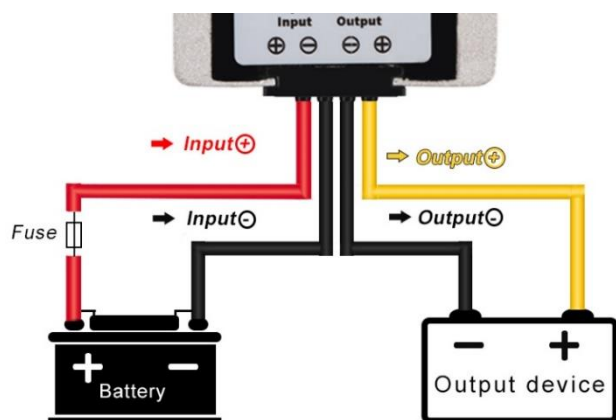
- Please read these instructions completely prior to installation
- Wear eye protection
- Keep good air convection
- Batteries produce explosive gases – Ensure no sparks or flames are present
- Follow all vehicle manufacturer's instructions
- Beware of moving parts
- Be sure of the correct polarity of input and output connection, or it burns the converter
- Please choose copper and big wire to avoid voltage drop, the input wire should be less 1m and output wire should be less 2m
If long wire, then bigger wire required. For terminal type converters, the terminal lugs for wires are necessary
- Please don't install any meters between converter to battery and converter to loads
- Don't connect negative or GND to vehicle case or chassis. And must install 4 wires individually
- Never connect the converter to a solar panel or wind turbine • Never charge the battery

Installation steps

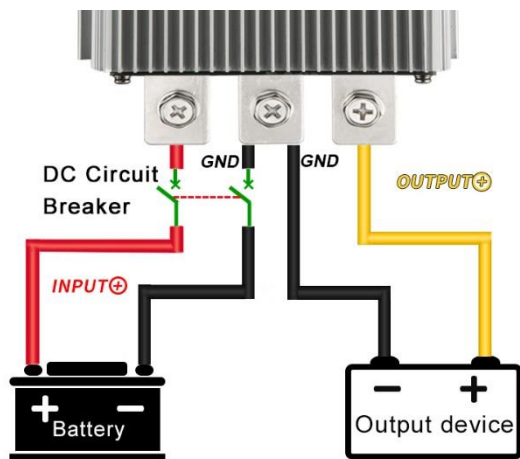
1. Turn off all power and load
2. Check all polarity
3. Connect **OUTPUT-/GND** to **LOAD-** and **OUTPUT+** to **LOAD+**
4. Insert fuse in the **INPUT+** wire (If big current, then insert Two-pole DC Circuit Breaker between **INPUT+** and **INPUT-/GND**), Connect **INPUT-/GND** to **BAT-** and **INPUT+** to **BAT+**
5. Turn on power and converter works.

Reminder

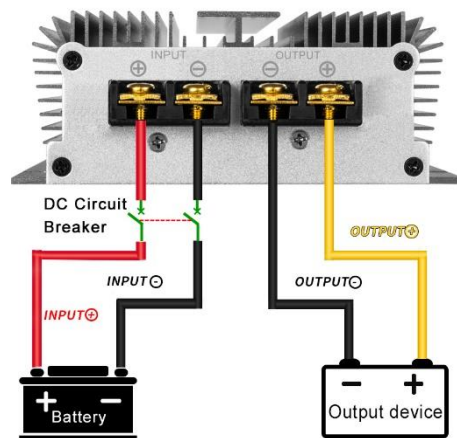
- When in doubt, the larger current converter is always a better choice
- It's a normal spark when you connect the converter to the battery
- It's normal that the case is hot and when it's over 185°F, the converter protects
- When the temperature is over 113°F, you touch any metal case and will feel very hot. This case will be over 113°F and it's normal
- If the fuse burns, please replace a new one
- If you do the bench test, the input voltage can't be over 20V



(a)



(b)



(c)

Model Chart

Model	Input Batt Voltage (V)	Output Voltage	Output Current	Input wire size	Output wire size	Input fuse	Input Circuit breaker	Lug size	Warranty (year)	Diagram
H03-12-24	12V DC	24V DC	3A	16	18	15A	/	/	2	a
H05-12-24	12V DC	24V DC	5A	16	18	20A	/	/	2	a
H10-12-24	12V DC	24V DC	10A	14	16	40A	/	/	2	a
H20-12-24A	12V DC	24V DC	20A	9	14	/	50A	/	2	c
H25-12-24A	12V DC	24V DC	25A	9	14	/	50A	/	2	c
A1U2420	12V DC	24V DC	20A	9	14	/	50A	M4	3	c
A1C2820	12V DC	28V DC	20A	9	14	/	63A	M4	3	c
A1U2430	12V DC	24V DC	30A	6	11	/	80A	M5	3	c
H30-12-24	12V DC	24V DC	30A	6	11	/	80A	M6	2	b
H30-12-28	12V DC	28V DC	30A	6	11	/	80A	M6	2	b
H40-12-24	12V DC	24V DC	40A	4	9	/	125A	M6	2	b
H40-12-28	12V DC	28V DC	40A	4	9	/	125A	M6	2	b
A1U2440	12V DC	24V DC	40A	4	9	/	125A	M5	3	c
H50-12-24	12V DC	24V DC	50A	3	8	/	160A	M6	2	b
A1C2850	12V DC	28V DC	50A	3	8	/	160A	M5	3	c
A1U2460	12V DC	24V DC	60A	1	6	/	160A	M5	3	c
H80-12-24	12V DC	24V DC	80A	00	4	/	225A	M8	2	b
H100-12-24	12V DC	24V DC	100A	000	3	/	250A	M8	2	b
A1C28100	12V DC	28V DC	100A	000	3	/	250A	M8	3	c
H150-12-24	12V DC	28V DC	150A	0000	00	/	250A	M8	2	b

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