

User Manual

The converter steps up the voltage from lead-acid/lithium battery vehicles to 48V or 56V/58V DC Voltage

Features

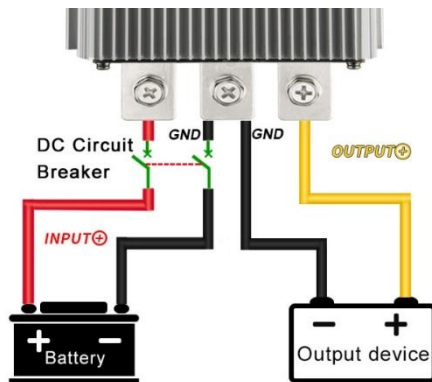
- 48V or 56V/58V stable output voltage (Refer to chart)
- Wide input voltage range
- Max efficiency up to 95%
- Less 0.04A no-load consumption
- Fully sealed to protect against water, dust, and vibration (IP68)
- Low voltage protection, Output over voltage protection, Overload protection, Over temperature protection
- 2-3 years warranty

Warning

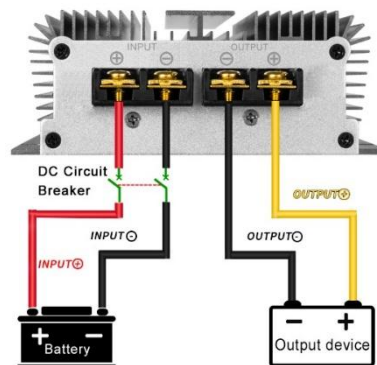
- Please read these instructions completely prior to installation
- Wear eye protection • Keep good air convection
- Batteries produce explosive gases – Ensure no sparks or flames are present
- Follow all vehicle manufacturer's instructions • Beware of moving parts
- Be sure of the correct polarity of 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
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.
- Never connect the converter to a solar panel or wind turbine • 48V Converters can't charge the battery except 56V/58V chargers

Installation steps

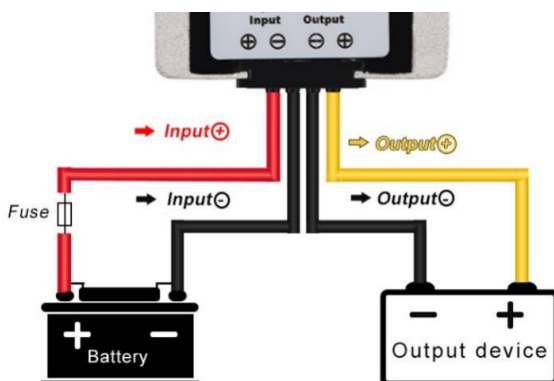
1. Turn off all power and load
2. Check all polarity
3. Connect **OUTPUT-/GND** to **LOAD-** and **OUTPUT+** to **LOAD+**
4. Insert fuse in the **INPUT+** wire (If big current, then insert Two-pole DC Circuit Breaker between **INPUT+** and **INPUT-/GND**),
Connect **INPUT-/GND** to **BAT-** and **INPUT+**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



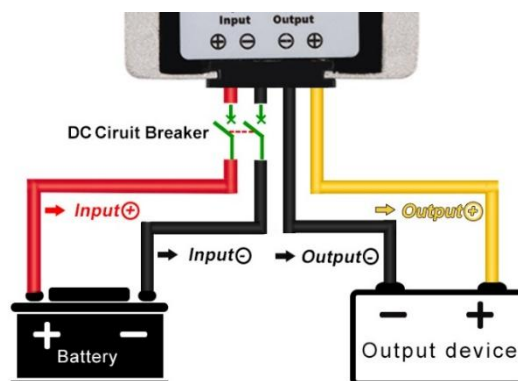
(a)



(b)



(c)



(d)

Notes: For H20-12-48, H30-2436-48 and H40-2436-48
BAT- to **GND** and **LOAD-** to **GND** both, **OUTPUT+** to **LOAD+**,
INPUT+ to **BAT+**
And must install 4 wires individually.

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.
- For H03-12-48, H03-12-56, H05-12-48, H10-1224-48, and H20-12-48, if you do the bench test, the input voltage can't be over 20V.

For H10-2436-48, H20-2436-48, H30-2436-48, and H40-2436-48, the input voltage can't be over 47V.

For A1U4830, A1U4840, A1C5620, and A1C5630, the input voltage can't be over 35V.

For A1U4810A, the input voltage can't be over 60V.

Model Chart

Model	Input Batt	Output Voltage	Output Current	Input wire size (awg)	Output wire size	Input fuse	Input Circuit breaker	Lug size	Warranty (year)	Diagram
H03-12-48	12V	48V DC	3A	12	18	25A	/	/	2	c
H03-12-56	12V	56V DC	3A	12	18	30A	/	/	2	c
H05-12-48	12V	48V DC	5A	12	16	40A	/	/	2	c
H10-1224-48	12V/24V	48V DC	10A	10	16	/	80A	/	2	d
H20-1224-48	12V/24V	48V DC	20A	3	12	/	160A	M6	2	a
H03-24-48	24V	48V DC	3A	16	18	12A	/	/	2	c
H05-24-48	24V	48V DC	5A	16	18	20A	/	/	2	c
H10-2436-48	24V/36V	48V DC	10A	12	16	40A	/	/	2	c
H20-2436-48	24V/36V	48V DC	20A	10	12	/	80A	/	2	d
H30-2436-48	24V/36V	48V DC	30A	5	10	/	120A	M6	2	a
H40-2436-48	24V/36V	48V DC	40A	3	8	/	160A	M6	2	a
H50-2436-48	24V/36V	48V DC	50A	1	7	/	200A	M6	2	a
A2U4860	24V/36V	48V DC	60A	0	5	/	240A	M6/M5	3	b
A2U4880	24V/36V	48V DC	80A	000	3	/	320A	M6/M5	3	b
A1U4810A	12V-60V	48V DC	10A	10	16	/	80A	M4	3	b
A1U4830	12V/24V	48V DC	30A	0	10	/	240A	M5	3	b
A1T2U4840	12V/24V	48V DC	40A	00	9	/	320A	M6	3	b
A1T2U4880	12V/24V	48V DC	80A	customized	3	/	640A	M6	3	b
A1C56C05	12V/24V	56V DC	5A	10	16	/	40A	M4	3	b
A1C56C10	12V/24V	56V DC	10A	6	14	/	90A	M4	3	b
A1T2C56C10	12V/24V	56V DC	10A	6	14	/	90A	M4	3	b
A1T2C58C10	12V/24V	58V DC	10A	6	14	/	100A	M4	3	b
A1C56C20	12V/24V	56V DC	20A	1	10	/	180A	M5	3	b
A1T2C56C20	12V/24V	56V DC	20A	1	10	/	180A	M5	3	b
A1T2C58C20	12V/24V	58V DC	20A	1	10	/	180A	M5	3	b
A1T2C56C30	12V/24V	56V DC	30A	00	8	/	280A	M6/M5	3	b
A1T2C58C30	12V/24V	58V DC	30A	00	8	/	280A	M6/M5	3	b

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