

INSTRUCTIONS:

- 1) Unpack converter and ensure there is no visible damage.
- 2) Make sure you received the proper unit and that the specs meet your requirements (enough capacity for your load).
- 3) Find a dry and suitable location to mount the converter and ensure you have enough space to mount the wires needed.
- 4) Cut and lug the appropriate AWG wires for your converter and connect to dc inputs and outputs per diagram. Your battery source must be 48Vdc and your load 12Vdc.
- 5) Mount converter in selected location.
- 6) Turn load off and then connect to converter.
- 7) Connect the - (negative / black) to the battery source and then your + (positive / red). DO NOT REVERSE POLARITY.
- 8) Turn on your load and make sure it is working properly.
- 9) Do not expose the converter to rain, snow, spray , bilge or dust.

AIMS Power Warranty Instructions:

This product is built using advanced digital technology and strict quality control and testing standards. If the product is not performing as expected, please contact us.

techsupport@aimscorp.net or (775)359-6703

We will do our best to resolve your concerns. If the product needs repair or replacement, make sure to keep a copy of your receipt/invoice, as that will need to be submitted when requesting an RA#. You have a full 2 year from date of purchase warranty.

Except as provided above, AIMS makes no warranty of any kind, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose. In no event shall AIMS be liable for indirect, special or consequential damages. This warranty only applies to AIMS Power branded products. All other name brand products are warranted by and according to their respective manufacturer. Please do not attempt to return non-AIMS Power branded products to AIMS Power.

PRODUCT REGISTRATION INSTRUCTIONS Scan the QR code or visit www.aimscorp.net. You'll find the registration link at the bottom of the home page. Registering your product validates your AIMS Power warranty and ensures fast, prioritized support if you ever need it.



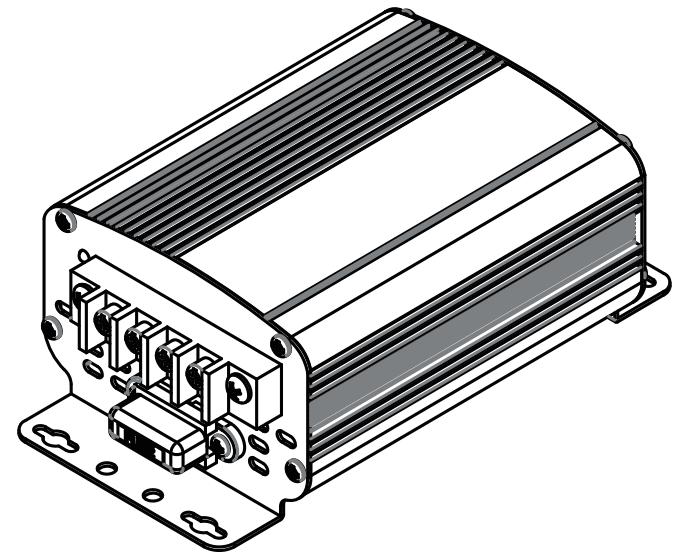
DC TO DC CONVERTER 48 TO 12

MODEL #:

CON5A4812

CON10A4812

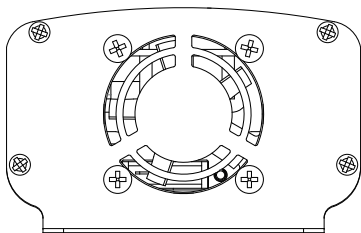
CON20A4812



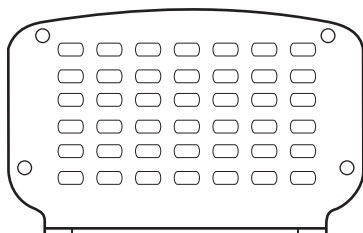
USERS MANUAL

Input And Output Connection

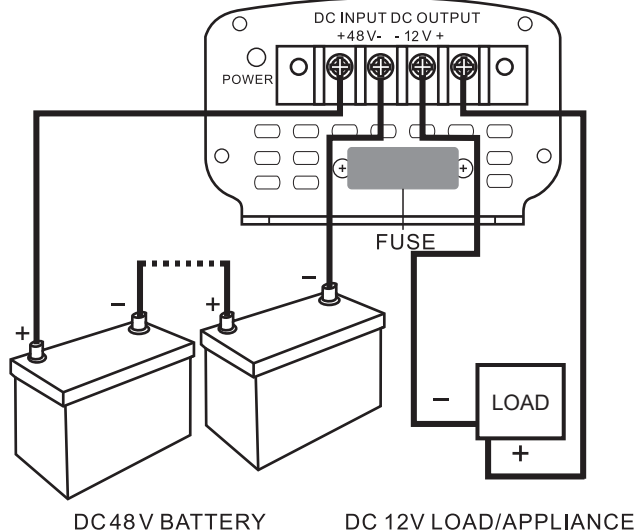
Rear Panel (FOR 10A~20A)



Rear Panel(FOR 5A)



Front Panel



NOTE: Image for example purposes only. Your battery configuration may be different.

Wire Connection Specifications



		5A	10A	20A
Cable size	Input	>22AWG	>20AWG	>18AWG
	Output	>18AWG	>16AWG	>14AWG
Cable length limit		<1m or 3 feet		
Terminal type		2-3.7	2-3.7	3-3.7

Specification

MODEL NO.	CON5A2812	CON10A2812	CON20A2812
DC Input Voltage	DC 44~58V		
DC Output Voltage	DC 12.5~13.5V		
Output Current (Continuous@25°C or 77°F)	5A	10A	20A
Output Current (Max.)	6A	12A	24A
Isolation (Primary to Secondary)	NA		
Heat Dissipated	Metal case	Thermal & Load	
DC Input	Hardwire		
DC Output	Hardwire		
Status LED	Yes	Yes	Yes
Conversion Efficiency	>92%	>91%	>91%
DC Input Low Battery Shutdown	40 ± 2 V		
DC Input High Battery Shutdown	59 ± 1 V		
DC Input Polarity Protection	Fuse		
DC Input Over Current Protection (FUSE)	3A	5A	10A
Overtemp Protection	65 ± 5°C 149 ± 5°F		
DC Output Short Protection	Yes		
DC Output Over Current Protection (above)	6A	12A	24A
DC Output Over Voltage Protection	TVS Diode		
Dimensions Inches(LxWxH)	3.62 x 3.39 x 2.2	4.41 x 3.39 x 2.2	5.91 x 3.39 x 2.2
Net Weight	.57 LBS	.71 LBS	1 LBS