



FAQ--DC DC CONVERTER -IDEALPLUSING

Q1: Regard as constant voltage and constant current DC-DC Converter

A. Constant voltage DC-DC Converter

For example:

1. 24vdc-12vdc 10A, 12vdc output is fix, but the current output is automatic adaptive base on the load.
2. If you connect the load not work at 12vdc , the dc converter will be burn

B. Constant Current DC-DC Converter

For example:

1. 24vdc-12vdc 10A , 10A output is fix, but the voltage output is automatic adaptive base on the load.
2. If you connect the load not work at 10A , the dc converter will be burn

Q2: Isolated & non-isolated DC-DC Converter

1. Isolated DC Converter is no any interference, it is suitable for sophisticated equipment and there is no any ripple
2. Isolated DC Converter with ripple
3. 2 of the terms commonly found around DC-DC converters are non-isolated and isolated converters. The non-isolated converters are often used when the change in voltage is small. Five different types of converters fall into this group. The input and output terminals share a common ground. The DC-DC converters are very common, and they are generally a cheaper solution for most devices. One of the disadvantages with the non-isolated converters is that they do not have much in the way of protection for high electrical voltages. They often have more noise as well.
4. We can provide you both isolate and non isolate dc dc converter.

Q3: Step down & Boost & Automatic Step down and Boost DC-DC Converter

1. Step down DC-DC Converter-- Input voltage must be more than 2V/more of output voltage
For example:24Vdc to 12Vdc 10A
2. Boost DC-DC Converter-- Input voltage must be less than 2V/more of output voltage
For example :5Vdc to 12Vdc 10A
3. Automatic Step down and Boost DC-DC Converter--- output voltage between the input voltage range
For example: 9-14Vdc to 12Vdc 10A
When 9VDC Input, it can support output 12V; When 14Vdc input, it can support output 12Vdc also; input voltage between 9-14V constantly beating the same can be stabilized output 12V;

Q4: Can you customize USB dc dc converter?

Yes.

Q5: Can you customize multi-output dc dc converter?

For now, because of the IDEALPLUSING dc dc converter's design and it's capacity, we can make 2-channels as max output.

Q6: What is the difference between the PCB case type and the Aluminum case type?

1. Aluminum case type is waterproof
2. The PCB case type is non- waterproof, but with Lightweight.

Q7: Can you make the dc dc converter with adjustable output voltage?

NO. We can only make it stable output.

Q8: Can you make the dc dc converter with adjustable output current?

NO. We can only make adjustable output current mode. For example one 0-10A model dc dc converter, if you connect with right load, all things will goes well. No need to make stable output.

Q9 : Can make Automatic Step up and down voltage dc converter?

Yes.

We can customize 12V-12V &24V-24V Automatic Step up and down voltage dc converter

Q10 : What is the biggest power you can customize for this small size dc converter now?

360W.The biggest power we can customize for this kind product is not more than 360W.

Q11 : Can this kind dc converter add USB port?

Yes. Just add 0.2 USD each one,and there is two kinds for USB port, as following:

1. MICRO port(for intelligent phone)



- 2.USB female port (need connect power cable)



Q12: Does this kind dc converter has reverse polarity protection on input?

No. We don't have it ,but we are trying to achieve.

Q13 : All of your dc converter is the same appearance?

1. The material has two different kinds: Aluminium and plastic shell
2. Aluminium shell is water proof, Plastic is not.
3. This two materials converter each has three kinds: large size,middle side,small size .different output power has different shell.

Q14: what does the step down and boost dc converter will apply for

1. Our products are widely used in automotive, posts and telecommunications, communications, electricity, coal, aerospace, defense, surveillance systems, railway signals, medical equipment, instruments and meters, LED displays, cable TV and other fields. If you can not find a suitable model,
2. our technical engineers will be based on your actual needs, corresponding to the rapid power solutions. I hope

that we can become a long-term partners.

Q15: what kind of protection function of the step down and boost dc converter have?

1. Overload protection
2. Over-current protection
3. Over / low voltage protection
4. Stable performance
5. Automatic recovery work
6. Fully waterproof potting
7. Ripple: 40MV
8. Working temperature: -40 to +85 (industrial grade temperature)
9. Widely used in LED car display, GPS navigation, MP3, MP4, car DVD, hard disk player, stereo, power is the best choice for vehicle equipment
10. Wiring as follows: Input: Red (+) Black (-)
11. Output: Yellow (+) Black (-)

Q16: Does the dc converter support running in full load?

1. NO , All of dc converter did not work in full load
2. The Efficiency $\leq 80\%$
3. For example : Model IPS-DTD12S2412 --12VDC-24VDC 12A DC Converter , it can support running 240w 7*24hours

Q17: Does ALL of the dc converter support running in full load?

1. NO
2. Not all the design are Waterproof, you should be confirm before purchase with our sale department
3. Waterproof : IP68

Q18: Does all of the dc converters with anti-interference filtration and TVS(1500w) function?

1. Yes, All of the dc converter with anti-interference filtration and TVS(1500w) function
2. Please noted

Q19: What is the customize range the converter you IDEALPLUSING ?

If you want other spec, please send email to info@idealplusing.com

Type	Model/Series	Input to output	Output Current (Be option)
DC-DC Boost Converter	IPS-DTD5~11S12**	5~11v to 12v	1/2/3/4/5/8/10A
	IPS-DTD12S15**	12V to 15V	1/2/3/4/5/8/10/12/15A
	IPS-DTD12S19**	12V to 19V	1/2/3/4/5/8/10/12/15/20A
	IPS-DTD12S24**	12V to 24V	1/2/3/4/5/8/10/12/15/20/25/30/40/50A
	IPS-DTD12S28**	12V to 28V	3/5/8/10/15/20/30/40A
	IPS-DTD12S36**	12V to 36V	1/1.5/2/3/5/6/10/20/30/40A
	IPS-DTD12S48**	12V to 48V	1/1.5/2/3/5/6/8/10/15/20A
	IPS-DTD12S56**	12V to 56V	3/5/6A
	IPS-DTD24S36**	24V to 36V	2/3/5/8A
	IPS-DTD24S48**	24V to 48V	2/3/5/6/10/15/20/30/40A
DC-DC Buck Converter	IPS-DTD12S5**	12V to 5V	1/2/3A
	IPS-DTD1224S5**	12/24V to 5V	1/2/3/4/5/6/8/10/15/20/30/40/50/60A
	IPS-DTD1224S6**	12/24V to 5V	10/15/20/25/40A

	IPS-DTD24S12**	24V to 12V	1/1.5/2/3/4/5/6/8/10/12/15/18/20/22/25/28/30/40/50 /60/85/100A
	IPS-DTD24S13.8**	24V to 13.8V	5/10/15/20/30/40/50/60A
	IPS-DTD24S15**	24V to 15V	5/8/10/15/20/25A
	IPS-DTD24S19**	24V to 19V	5/6/8/10/15/20/25A
	IPS-DTD36S12**	36V to 12V	5/10/15/20/30/50/60A
	IPS-DTD48S5**	48V to 5V	5/6/8/10/15/20A
	IPS-DTD48S12**	48V to 12V	1/2/3/5/6/8/10/15/20/25/30/50/60A
	IPS-DTD48S13.8**	48V to 13.8V	5/10/15/20/30/50/60A
	IPS-DTD48S19**	48V to 19V	5/8/10A
	IPS-DTD48S24**	48V to 24V	1/1.5/2/3/5/6/8/10/15/20/30/40/50A
	IPS-DTD48S36**	48V to 36V	10A
	IPS-DTD60S5**	60V to 5V	8/10/15/20A
	IPS-DTD60S12**	60V to 12V	5/8/10/15A
	IPS-DTD60S13.8**	60V to 13.8V	15A
	IPS-DTD60S24**	60V to 24V	3/5/8/10/15A
Boost & Buck Converter	IPS-DTD8~40S12*	8~40V to 12V	1/2/3/6/10/15/20/25A
	IPS-DTD8~40S13.8 *	8~40V to 13.8V	3/5/10/15/20A
	IPS-DTD9~36S19*	9~36V to 19V	5/10A
	IPS-DTD9~40S24*	9~40V to 24V	2/3/4/6/10A
AC to DC Converter	IPS-ATD12S12	12Vac to 12Vdc	1/2/3/4/5/8/10A
	IPS-ATD24S12	24Vac to 12Vdc	1/2/3/4/5/8/10A
	IPS-ATD24S5	24Vac to 5Vdc	1/2/3/4/5/8/10A
	IPS-ATD24S24	24Vac to 24Vdc	1/1.5/2/5/6A
	IPS-ATD36S5	36Vac to 5Vdc	1/2/3A
	IPS-ATD36S12	36Vac to 12Vdc	1/2/3A
	IPS-ATD36S24	36Vac to 24Vdc	1/2A