

12V to 13.8V15V19V DC DC boost Converter Specification

Revision Record

Version	Description	Effective Date	Edited by
00	First release	20150810	Edward
01	Remove iron shell series products	20170411	Edward

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1. Product Overview

1.1 Description

Model No.	Description	Interface material	Remark
ADS12T13R8-05PC	12V to 13.8V 5A	Flame Retardant Plastic case	58x40x22mm
ADS12T15-04PC	12V to 15V 4A	Flame Retardant Plastic case	58x40x22mm
ADS12T19-04PC	12V to 19V 4A	Flame Retardant Plastic case	58x40x22mm
ADS12T13R8-08AL	12V to 13.8V 8A	Aluminum alloy shell	74x74x32mm
ADS12T13R8-10AL	12V to 13.8V 10A	Aluminum alloy shell	74x74x32mm
ADS12T13R8-12AL	12V to 13.8V 12A	Aluminum alloy shell	74x74x32mm
ADS12T13R8-15AL	12V to 13.8V 15A	Aluminum alloy shell	74x74x32mm
ADS12T13R8-18AL	12V to 13.8V 18A	Aluminum alloy shell	74x74x32mm
ADS12T15-05AL	12V to 15V 5A	Aluminum alloy shell	74x74x32mm
ADS12T15-08AL	12V to 15V 8A	Aluminum alloy shell	74x74x32mm
ADS12T15-10AL	12V to 15V 10A	Aluminum alloy shell	74x74x32mm
ADS12T15-15AL	12V to 15V 15A	Aluminum alloy shell	74x74x32mm
ADS12T19-05AL	12V to 19V 5A	Aluminum alloy shell	74x74x32mm
ADS12T19-06AL	12V to 19V 6A	Aluminum alloy shell	74x74x32mm
ADS12T19-08AL	12V to 19V 8A	Aluminum alloy shell	74x74x32mm
ADS12T19-10AL	12V to 19V 10A	Aluminum alloy shell	74x74x32mm
ADS12T19-15AL	12V to 19V 15A	Aluminum alloy shell	74x74x32mm

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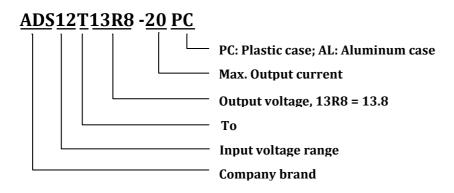
The ADS series dc converter (dc power supply) is consist of Bridge drive switch, PWM pulse circuit, power transformer and rectifier filter circuit, topological structure design guarantee a safety application and high transfer efficiency.

The DC converters are widely used in Military, Avionics, Boat, Yacht, Bus, Vehicles, Golf Cart, Forklift, esweeper, all kind of automotive, posts and telecommunications, communications, electricity, solar system, coal, aerospace, defense, surveillance systems, railway signals, medical equipment, instruments and meters, LED displays, cable TV, AGV, Robot, IoT and other fields. If you can not find a suitable model, we can customize it for you

1.2 Features

- 1. Conversion efficiency > 93%
- 2. Pouring Sealed inside, Die-cast aluminum shell
- 3. Non-isolated between input and output
- 4. Anti-Quakeand dust
- 5. Protection level: IP67
- 6. Famous key components brand
- 7. PWM technology and IRF high power transistor
- 8. Sufficient power with synchronous rectification technology.
- 9. Over-voltage, over current, short-circuits, over-temperature protection and auto recovery function.
- 10. Easy installation, Convenient for using and transportation
- 11. Warranty: 2 Year

1.3 Product Name Definition



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2. Technical Specifications

Model	ADS12T13R8-05PC		
	Rated voltage	٧	12
	Voltage range	٧	9-13
Input	Conversion efficiency	%	93
•	Positive cable	cm	Red @ 22
	Negative cable	cm	Black @22
	Voltage	٧	13.8
	Voltage range	٧	13.7~13.9
	Working current	Α	5
	Peak current	Α	6.5
Output	Rated power	W	69
·	Power consumption	mA	35
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22
	Negative cable	cm	Black @22
	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
Protection function	Output reverse connect		No, can customize
	Automatic recovery		Yes
	Water-proof		Yes
	Quake-proof		Yes
	Dust-proof		Yes
	Protection level		IP67
	Working Temperature	°c	-40 ~+85
Environment	Working humidity	RH	< 90
	Storage temperature	°c	-50~+ 90
	Shell material		Flame Retardant Plastic case
Cananal	Sealed material		Epoxy filled and sealed
General	Dimension	mm	58*40.5*22
	Weight	g	97

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Model		ADS12T15-04PC			
	Rated voltage	V	12		
	Voltage range	V	9-14		
Input	Conversion efficiency	%	93		
	Positive cable	cm	Red @ 22		
	Negative cable	cm	Black @22		
	Voltage	V	15		
	Voltage range	V	14.9~15.1		
	Working current	Α	4		
	Peak current	А	5		
Output	Rated power	W	60		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 22		
	Negative cable	cm	Black @22		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°c	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°C	-50~+ 90		
	Shell material		Flame Retardant Plastic case		
General	Sealed material		Epoxy filled and sealed		
General	Dimension	mm	58*40.5*22		
	Weight	g	97		

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Model		ADS12T19-04PC			
	Rated voltage	V	12		
	Voltage range	V	9-18		
Input	Conversion efficiency	%	92		
	Positive cable	cm	Red @ 22		
	Negative cable	cm	Black @22		
	Voltage	V	19		
	Voltage range	V	18.9~19.1		
	Working current	Α	4		
	Peak current	А	5		
Output	Rated power	W	76		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 22		
	Negative cable	cm	Black @22		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°c	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°C	-50~+ 90		
	Shell material		Flame Retardant Plastic case		
General	Sealed material		Epoxy filled and sealed		
General	Dimension	mm	58*40.5*22		
	Weight	g	97		

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Model	ADS12T13R8-08AL				
	Rated voltage	V	12		
	Voltage range	V	9-13		
Input	Conversion efficiency	%	93		
	Positive cable	cm	Red @ 18		
	Negative cable	cm	Black @18		
	Voltage	V	13.8		
	Voltage range	V	13.7~13.9		
	Working current	Α	8		
	Peak current	Α	12		
Output	Rated power	W	110		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 18		
	Negative cable	cm	Black @18		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°C	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°C	-50~+ 90		
	Shell material		Aluminum alloy case		
General	Sealed material		Heat organic silicone filled and sealed		
General	Dimension	mm	74*74*32		
	Weight	g	300		

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Model	ADS12T13R8-10AL			
	Rated voltage	V	12	
	Voltage range	V	9-13	
Input	Conversion efficiency	%	93	
	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	13.8	
	Voltage range	V	13.7~13.9	
	Working current	Α	10	
	Peak current	Α	12	
Output	Rated power	W	138	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
	Working Temperature	°C	-40 ~+85	
Environment	Working humidity	RH	< 90	
	Storage temperature	°C	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Heat organic silicone filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T13R8-12AL				
	Rated voltage	V	12		
	Voltage range	V	9-13		
Input	Conversion efficiency	%	93		
•	Positive cable	cm	Red @ 18		
	Negative cable	cm	Black @18		
	Voltage	V	13.8		
	Voltage range	V	13.7~13.9		
	Working current	А	12		
	Peak current	Α	15		
Output	Rated power	W	166		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 18		
	Negative cable	cm	Black @18		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°c	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°c	-50~+ 90		
	Shell material		Aluminum alloy case		
General	Sealed material		Heat organic silicone filled and sealed		
General	Dimension	mm	74*74*32		
	Weight	g	300		

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Model	ADS12T13R8-15AL				
	Rated voltage	V	12		
	Voltage range	٧	9-13		
Input	Conversion efficiency	%	93		
•	Positive cable	cm	Red @ 18		
	Negative cable	cm	Black @18		
	Voltage	V	13.8		
	Voltage range	V	13.7~13.9		
	Working current	А	15		
	Peak current	А	18		
Output	Rated power	W	207		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 18		
	Negative cable	cm	Black @18		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°c	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°c	-50~+ 90		
	Shell material		Aluminum alloy case		
General	Sealed material		Heat organic silicone filled and sealed		
General	Dimension	mm	74*74*32		
	Weight	g	300		

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Model	ADS12T13R8-18AL				
	Rated voltage	V	12		
	Voltage range	٧	9-13		
Input	Conversion efficiency	%	93		
•	Positive cable	cm	Red @ 18		
	Negative cable	cm	Black @18		
	Voltage	V	13.8		
	Voltage range	V	13.7~13.9		
	Working current	А	18		
	Peak current	А	22		
Output	Rated power	W	248		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 18		
	Negative cable	cm	Black @18		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
	Working Temperature	°c	-40 ~+85		
Environment	Working humidity	RH	< 90		
	Storage temperature	°c	-50~+ 90		
	Shell material		Aluminum alloy case		
General	Sealed material		Heat organic silicone filled and sealed		
General	Dimension	mm	74*74*32		
	Weight	g	300		

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Model	ADS12T15-05AL			
	Rated voltage	V	12	
	Voltage range	V	9-14	
Input	Conversion efficiency	%	93	
•	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	15	
	Voltage range	V	14.9~15.1	
	Working current	А	5	
	Peak current	А	8	
Output	Rated power	W	75	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
	Working Temperature	°c	-40 ~+85	
Environment	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T15-08AL			
	Rated voltage	V	12	
	Voltage range	٧	9-14	
Input	Conversion efficiency	%	93	
•	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	15	
	Voltage range	V	14.9~15.1	
	Working current	Α	8	
	Peak current	Α	10	
Output	Rated power	W	120	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
Environment	Working Temperature	°c	-40 ~+85	
	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model		ADS12T15-10AL			
	Rated voltage	V	12		
	Voltage range	V	9-14		
Input	Conversion efficiency	%	93		
	Positive cable	cm	Red @ 18		
	Negative cable	cm	Black @18		
	Voltage	V	15		
	Voltage range	V	14.9~15.1		
	Working current	Α	10		
	Peak current	Α	15		
Output	Rated power	W	150		
	Power consumption	mA	35		
	Ripple & noise	mV	40		
	Positive cable	cm	Yellow @ 18		
	Negative cable	cm	Black @18		
	Input instant over voltage		Yes		
	Output over current		Yes		
	Output short-circuit		Yes		
	Chip over temperature		Yes		
	Input reverse connect		No, can customize		
Protection function	Output reverse connect		No, can customize		
	Automatic recovery		Yes		
	Water-proof		Yes		
	Quake-proof		Yes		
	Dust-proof		Yes		
	Protection level		IP67		
Environment	Working Temperature	°c	-40 ~+85		
	Working humidity	RH	< 90		
	Storage temperature	°C	-50~+ 90		
	Shell material		Aluminum alloy case		
General	Sealed material		Epoxy filled and sealed		
General	Dimension	mm	74*74*32		
	Weight	g	300		

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Model	ADS12T15-10AL			
	Rated voltage	V	12	
	Voltage range	٧	9-14	
Input	Conversion efficiency	%	93	
·	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	15	
	Voltage range	V	14.9~15.1	
	Working current	А	15	
	Peak current	А	18	
Output	Rated power	W	225	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
Environment	Working Temperature	°c	-40 ~+85	
	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T19-05AL			
	Rated voltage	V	12	
	Voltage range	٧	9-18	
Input	Conversion efficiency	%	93	
·	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	19	
	Voltage range	V	18.9~19.1	
	Working current	Α	5	
	Peak current	Α	8	
Output	Rated power	W	95	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
Environment	Working Temperature	°c	-40 ~+85	
	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T19-06AL			
	Rated voltage	V	12	
	Voltage range	V	9-18	
Input	Conversion efficiency	%	93	
-	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	19	
	Voltage range	V	18.9~19.1	
	Working current	Α	6	
	Peak current	Α	8	
Output	Rated power	W	114	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
	Working Temperature	°c	-40 ~+85	
Environment	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T19-08AL			
	Rated voltage	V	12	
	Voltage range	V	9-18	
Input	Conversion efficiency	%	93	
-	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	19	
	Voltage range	V	18.9~19.1	
	Working current	Α	8	
	Peak current	Α	10	
Output	Rated power	W	152	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
	Working Temperature	°c	-40 ~ +85	
Environment	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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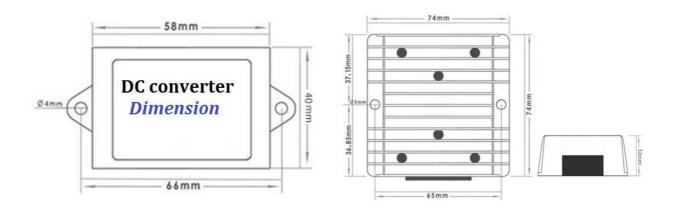
Model	ADS12T19-10AL			
	Rated voltage	V	12	
	Voltage range	V	9-18	
Input	Conversion efficiency	%	93	
·	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	19	
	Voltage range	V	18.9~19.1	
	Working current	Α	10	
	Peak current	Α	12	
Output	Rated power	W	190	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
	Working Temperature	°c	-40 ~+85	
Environment	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

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Model	ADS12T19-15AL			
	Rated voltage	V	12	
Input	Voltage range	V	9-18	
	Conversion efficiency	%	93	
	Positive cable	cm	Red @ 18	
	Negative cable	cm	Black @18	
	Voltage	V	19	
	Voltage range	V	18.9~19.1	
	Working current	А	15	
	Peak current	А	16	
Output	Rated power	W	285	
	Power consumption	mA	35	
	Ripple & noise	mV	40	
	Positive cable	cm	Yellow @ 18	
	Negative cable	cm	Black @18	
	Input instant over voltage		Yes	
	Output over current		Yes	
	Output short-circuit		Yes	
	Chip over temperature		Yes	
	Input reverse connect		No, can customize	
Protection function	Output reverse connect		No, can customize	
	Automatic recovery		Yes	
	Water-proof		Yes	
	Quake-proof		Yes	
	Dust-proof		Yes	
	Protection level		IP67	
Environment	Working Temperature	°c	-40 ~+85	
	Working humidity	RH	< 90	
	Storage temperature	°c	-50~+ 90	
	Shell material		Aluminum alloy case	
General	Sealed material		Epoxy filled and sealed	
General	Dimension	mm	74*74*32	
	Weight	g	300	

3. Dimension



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4. Use Attention

- 1. In strict accordance with the polarity to connect, input positive is Red (+), negative is Black (-), reverse connect will damage the converter, output positive is Yellow (+),negative is Black (-), reverse connect will will damage the using facility.
- 2. In order to ensure the converter can get high efficiency output voltage and power, please make sure the sufficient input current and voltage supply.
- 3. If the multi-output application, please balance each of the load, please don't tie the entire load together.
- 4. If the load long time work over 80% of rated power, need to lock the converter tightly with extend metal for heat dissipation, if the load power under or equal 80%, shall be more reliable and safe.
- 5. The converter is Non-isolated one, if you look for the converter input voltage higher than output 40V, please select the isolated converter.

5. Customer services

Warranty is 2 year, free maintenance service will be offered when there is quality problem since the date of pur chase.

If maintenance or adjustment is needed within guarantee period and in the scope of our warranty, please contact our service center

The expense will be absorbed by customer side if any of the following situations happens:

- 1. Fault was due to maintenance or adjustment without checking or permission of our factory.
- 2. Fault was caused by manmade, or disassemble by customer side or use of overload, or other natural disasters within the warranty period.
 - 3. Converter was burnt because of incorrect usage of power supply or too high current.

All products have been checked and packaged with ESD bag in good condition before dispatch, in case the item was damaged, please feedback us within 30 days of receipt, we will provide the free replacement, no refunds are offered.

Please contact us through email: services@charger-connector.com, we will response you within 24-48 hours.

OEM:

- 1. LOGO and Label can be customized, please offer us the model number and logo original file.
- 2. Parameters and functions can be customized, please offer the details
- 4. Package can be customized, please provide us the original file.

Payment Terms:

T/T in advance, PayPal, Alipay

Lead Time:

- 1. Customized samples will be delivered from our factory within 20 working days.
- 2. General orders will be delivered from our factory within 3~7 working days.
- 3. Big orders(over 10Kpcs) will be delivered from our factory within 10~25 working days

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