

36V48V60V to 12V DC DC Step-Down Converter Specification

Revision Record

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

Table of Contents

1	Product Overview	2
1.1	Description	2
1.2	Features	3
1.3	Product name definition	3
2	Specification	4
2.1	0858V to 12V1~3A plastic case series.....	4~6
2.1	1572V to 12V1~5A plastic case series.....	7~10
2.2	36V to 12V10-15A series.....	11~12
2.2	48V to 12V10-15A series.....	13~14
2.2	60V to 12V5-15A series.....	15~17
2.2	3648V to 12V5-60A series.....	18~23
3	Dimension	23
4	Use Attention	24
5	Customer Service.....	24

1. Product Overview

1.1 Description

Model No.	Description	Interface material	Remark
ADS0858T12-01PC	08~58Vdc to 12Vdc 1A	Plastic shell	46x32x18mm
ADS0858T12-02PC	08~58Vdc to 12Vdc 2A	Plastic shell	46x32x18mm
ADS0858T12-03PC	08~58Vdc to 12Vdc 3A	Plastic shell	46x32x18mm
ADS1572T12-01PC	15~72Vdc to 12Vdc 1A	Plastic shell	58x40x22mm
ADS1572T12-02PC	15~72Vdc to 12Vdc 2A	Plastic shell	58x40x22mm
ADS1572T12-03PC	15~72Vdc to 12Vdc 3A	Plastic shell	58x40x22mm
ADS1572T12-05PC	15~72Vdc to 12Vdc 5A	Plastic shell	58x40x22mm
ADS36T12-10AL	20-60Vdc to 12Vdc 10A	Aluminum alloy shell	74x74x32mm
ADS36T12-15AL	20-60Vdc to 12Vdc 15A	Aluminum alloy shell	74x74x32mm
ADS48T12-10AL	20-60Vdc to 12Vdc 10A	Aluminum alloy shell	74x74x32mm
ADS48T12-15AL	20-60Vdc to 12Vdc 15A	Aluminum alloy shell	74x74x32mm
ADS60T12-05AL	20-75Vdc to 12Vdc 5A	Aluminum alloy shell	74x74x32mm
ADS60T12-10AL	20-75Vdc to 12Vdc 10A	Aluminum alloy shell	74x74x32mm
ADS60T12-15AL	20-75Vdc to 12Vdc 15A	Aluminum alloy shell	74x74x32mm
ADS3648T12-05PC	30~60Vdc to 12Vdc 5A	Plastic shell	58x40x22mm
ADS3648T12-20AL	20-60Vdc to 12Vdc 20A	Aluminum alloy shell	74x74x32mm
ADS3648T12-25AL	20-60Vdc to 12Vdc 25A	Aluminum alloy shell	74x74x32mm
ADS3648T12-30AL	30-60Vdc to 12Vdc 30A	Aluminum alloy shell	100x80x39mm

ADS3648T12-50AL	30-60Vdc to 12Vdc 50A	Aluminum alloy shell	150x127x63mm
ADS3648T12-60AL	30-60Vdc to 12Vdc 60A	Aluminum alloy shell	150x127x63mm

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, e-sweeper, 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

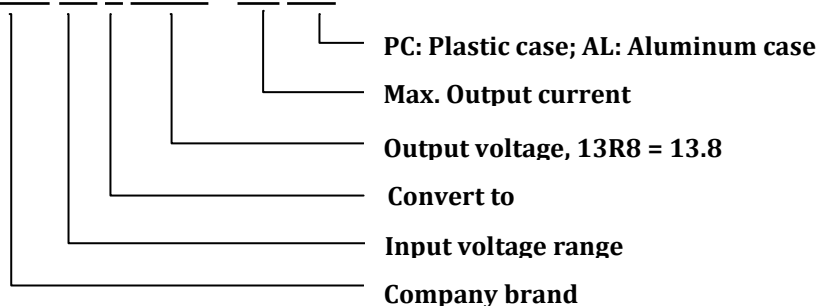
1.2 Features

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

ADS12T13R8 -20 PC



2. Technical Specifications

Model	ADS0858T12-01PC		
Input	Rated voltage	V	24/36/48
	Voltage range	V	08-58
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	1
	Peak current	A	6
	Rated power	W	12
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	46*32*18
	Weight	g	53

Model	ADS0858T12-02PC		
Input	Rated voltage	V	24/36/48
	Voltage range	V	08-58
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	2
	Peak current	A	6
	Rated power	W	24
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	46*32*18
	Weight	g	53

Model	ADS0858T12-03PC		
Input	Rated voltage	V	24/36/48
	Voltage range	V	08-58
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	3
	Peak current	A	6
	Rated power	W	39
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	46*32*18
	Weight	g	53

Model	ADS1572T12-01PC		
Input	Rated voltage	V	36/48/60
	Voltage range	V	15-72
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	1
	Peak current	A	6
	Rated power	W	12
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	58*40*22
	Weight	g	97

Model	ADS1572T12-02PC		
Input	Rated voltage	V	36/48/60
	Voltage range	V	15-72
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	2
	Peak current	A	6
	Rated power	W	24
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	58*40*22
	Weight	g	97

Model	ADS1572T12-03PC		
Input	Rated voltage	V	36/48/60
	Voltage range	V	15-72
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	3
	Peak current	A	6
	Rated power	W	36
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	58*40*22
	Weight	g	97

Model	ADS1572T12-05PC		
Input	Rated voltage	V	36/48/60
	Voltage range	V	15-72
	Conversion efficiency	%	93
	Positive cable	cm	Red @ 22 or DC connector
	Negative cable	cm	Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	5
	Peak current	A	6
	Rated power	W	60
	Power consumption	mA	5.0
	Ripple & noise	mV	40
	Positive cable	cm	Yellow @ 22 or DC connector
	Negative cable	cm	Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	58*40*22
	Weight	g	97

Model	ADS36T12-10AL		
Input	Rated voltage	V	36
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	10
	Peak current	A	15
	Rated power	W	120
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS36T12-15AL		
Input	Rated voltage	V	36
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	15
	Peak current	A	18
	Rated power	W	180
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS48T12-10AL		
Input	Rated voltage	V	48
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	10
	Peak current	A	13
	Rated power	W	120
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS48T12-15AL		
Input	Rated voltage	V	48
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	15
	Peak current	A	18
	Rated power	W	180
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS60T12-05AL		
Input	Rated voltage	V	60
	Voltage range	V	20-75
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	5
	Peak current	A	10
	Rated power	W	60
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS60T12-10AL		
Input	Rated voltage	V	60
	Voltage range	V	20-75
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	10
	Peak current	A	15
	Rated power	W	120
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS60T12-15AL		
Input	Rated voltage	V	60
	Voltage range	V	20-75
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	15
	Peak current	A	18
	Rated power	W	180
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS3648T12-05PC		
Input	Rated voltage	V	36/48
	Voltage range	V	30-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 22 or DC connector
	Negative polarity		Black @22 or DC connector
Output	Voltage	V	12
	Voltage range	V	11.95~12.05
	Working current	A	5
	Peak current	A	6
	Rated power	W	60
	Power consumption	mA	5
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 22 or DC connector
	Negative polarity		Black @ 22 or DC connector
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Flame Retardant Plastic case
	Sealed material		Epoxy filled and sealed
	Dimension	mm	58*40*22
	Weight	g	97

Model	ADS3648T12-20AL		
Input	Rated voltage	V	36/48
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	20
	Peak current	A	30
	Rated power	W	240
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

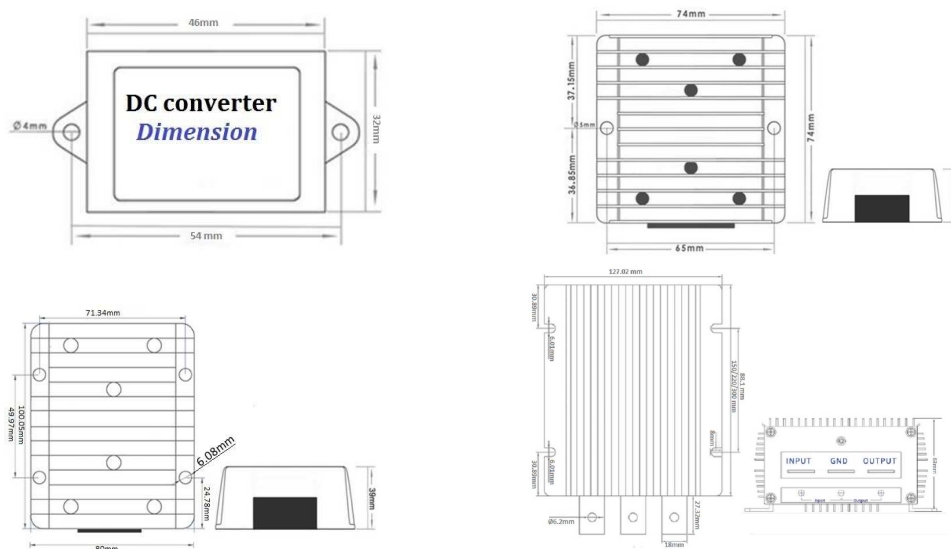
Model	ADS3648T12-25AL		
Input	Rated voltage	V	36/48
	Voltage range	V	20-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	25
	Peak current	A	30
	Rated power	W	300
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	74*74*32
	Weight	g	300

Model	ADS3648T12-30AL		
Input	Rated voltage	V	36/48
	Voltage range	V	30-60
	Conversion efficiency	%	93
	Positive polarity		Red @ 18
	Negative polarity		Black @18
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	30
	Peak current	A	40
	Rated power	W	360
	Power consumption	mA	25
	Ripple & noise	mV	40
	Positive polarity		Yellow @ 18
	Negative polarity		Black @18
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	100*80*39
	Weight	g	500

Model	ADS3648T12-50AL		
Input	Rated voltage	V	36/48
	Voltage range	V	30-60
	Conversion efficiency	%	91
	Positive cable	cm	Left terminal mark with "INPUT"
	Negative cable	cm	Mid terminal mark with "GND"
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	50
	Peak current	A	65
	Rated power	W	600
	Power consumption	mA	70
	Ripple & noise	mV	200
	Positive cable	cm	Right terminal mark with "OUTPUT"
	Negative cable	cm	Mid terminal mark with "GND"
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	150*127*63
	Weight	g	1600

Model	ADS3648T12-60AL		
Input	Rated voltage	V	3648
	Voltage range	V	30-60
	Conversion efficiency	%	91
	Positive polarity		Left terminal mark with "INPUT"
	Negative polarity		Mid terminal mark with "GND"
Output	Voltage	V	12
	Voltage range	V	11.9~12.1
	Working current	A	60
	Peak current	A	65
	Rated power	W	720
	Power consumption	mA	70
	Ripple & noise	mV	200
	Positive polarity		Right terminal mark with "OUTPUT"
	Negative polarity		Mid terminal mark with "GND"
Protection function	Input instant over voltage		Yes
	Output over current		Yes
	Output short-circuit		Yes
	Chip over temperature		Yes
	Input reverse connect		No, can customize
	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
General	Shell material		Aluminum alloy case
	Sealed material		Heat organic silicone filled and sealed
	Dimension	mm	150*127*63
	Weight	g	1600

3. Dimension



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 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.
6. The converter can't use to charge battery

5. Customer services

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

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