

24V 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 |
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1. Product Overview

1.1 Description

| Model No. | Description | Interface material | Remark |
|---------------|--------------------|----------------------|--------------|
| ADS24T12-01PC | 24Vdc to 12Vdc 1A | Plastic shell | 46x32x18mm |
| ADS24T12-02PC | 24Vdc to 12Vdc 2A | Plastic shell | 46x32x18mm |
| ADS24T12-03PC | 24Vdc to 12Vdc 3A | Plastic shell | 46x32x18mm |
| ADS24T12-05PC | 24Vdc to 12Vdc 5A | Plastic shell | 46x32x18mm |
| ADS24T12-01AL | 24Vdc to 12Vdc 1A | Aluminum alloy shell | 43x25x22mm |
| ADS24T12-02AL | 24Vdc to 12Vdc 2A | Aluminum alloy shell | 43x25x22mm |
| ADS24T12-03AL | 24Vdc to 12Vdc 3A | Aluminum alloy shell | 43x25x22mm |
| ADS24T12-05AL | 24Vdc to 12Vdc 5A | Aluminum alloy shell | 43x25x22mm |
| ADS24T12-08AL | 24Vdc to 12Vdc 8A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-10AL | 24Vdc to 12Vdc 10A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-12AL | 24Vdc to 12Vdc 12A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-15AL | 24Vdc to 12Vdc 15A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-20AL | 24Vdc to 12Vdc 20A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-22AL | 24Vdc to 12Vdc 22A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-25AL | 24Vdc to 12Vdc 25A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-30AL | 24Vdc to 12Vdc 30A | Aluminum alloy shell | 74x74x32mm |
| ADS24T12-40AL | 24Vdc to 12Vdc 40A | Aluminum alloy shell | 100x80x39mm |
| ADS24T12-50AL | 24Vdc to 12Vdc 50A | Aluminum alloy shell | 150x127x63mm |

| | | | |
|----------------|---------------------|----------------------|--------------|
| ADS24T12-60AL | 24Vdc to 12Vdc 60A | Aluminum alloy shell | 150x127x63mm |
| ADS24T12-70AL | 24Vdc to 12Vdc 70A | Aluminum alloy shell | 220x127x63mm |
| ADS24T12-80AL | 24Vdc to 12Vdc 80A | Aluminum alloy shell | 220x127x63mm |
| ADS24T12-90AL | 24Vdc to 12Vdc 90A | Aluminum alloy shell | 220x127x63mm |
| ADS24T12-100AL | 24Vdc to 12Vdc 100A | Aluminum alloy shell | 220x127x63mm |

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

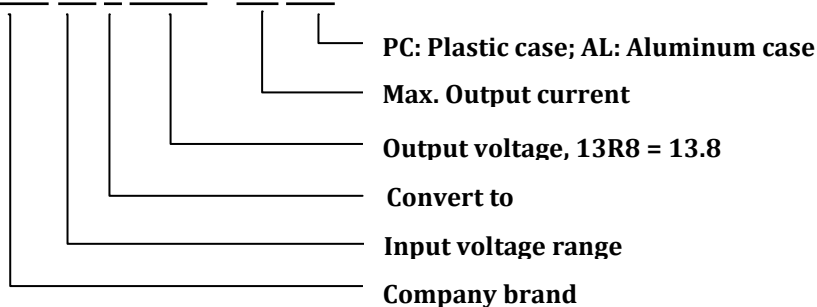
1.2 Features

1. Conversion efficiency > 93%
2. Pouring Sealed inside, Die-cast aluminum shell
3. Non-isolated between input and output
4. Anti-Quake and 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 | ADS24T12-01PC | | |
|---------------------|----------------------------|----|------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 55 |

| Model | ADS24T12-02PC | | |
|---------------------|----------------------------|----|------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 55 |

| Model | ADS24T12-03PC | | |
|---------------------|----------------------------|----|------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 46*32*18 |
| | Weight | g | 55 |

| Model | ADS24T12-05PC | | |
|---------------------|----------------------------|----|------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 46*32*18 |
| | Weight | g | 55 |

| Model | ADS24T12-01AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 1 |
| | Peak current | A | 6 |
| | Rated power | W | 12 |
| | 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 | | Aluminum alloy case |
| | Sealed material | | Heat organic silicone filled and sealed |
| | Dimension | mm | 43*25*22 |
| | Weight | g | 45 |

| Model | ADS24T12-02AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 2 |
| | Peak current | A | 6 |
| | Rated power | W | 24 |
| | 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 | | Aluminum alloy case |
| | Sealed material | | Heat organic silicone filled and sealed |
| | Dimension | mm | 43*25*22 |
| | Weight | g | 45 |

| Model | ADS24T12-03AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 3 |
| | Peak current | A | 6 |
| | Rated power | W | 36 |
| | 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 | | Aluminum alloy case |
| | Sealed material | | Heat organic silicone filled and sealed |
| | Dimension | mm | 43*25*22 |
| | Weight | g | 45 |

| Model | ADS24T12-05AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | | Aluminum alloy case |
| | Sealed material | | Heat organic silicone filled and sealed |
| | Dimension | mm | 43*25*22 |
| | Weight | g | 45 |

| Model | ADS24T12-08AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 8 |
| | Peak current | A | 10 |
| | Rated power | W | 96 |
| | 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 | ADS24T12-10AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | ADS24T12-12AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 12 |
| | Peak current | A | 15 |
| | Rated power | W | 144 |
| | 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 | ADS24T12-15AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 16 |
| | 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 | ADS24T12-20AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 25 |
| | 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 | ADS24T12-22AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 22 |
| | Peak current | A | 25 |
| | Rated power | W | 264 |
| | 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 | ADS24T12-25AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | ADS24T12-30AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 32 |
| | 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 | 74*74*32 |
| | Weight | g | 300 |

| Model | ADS24T12-40AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 15-40 |
| | 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 | 40 |
| | Peak current | A | 45 |
| | Rated power | W | 480 |
| | 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 | ADS24T12-50AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | 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 | ADS24T12-60AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | 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 |

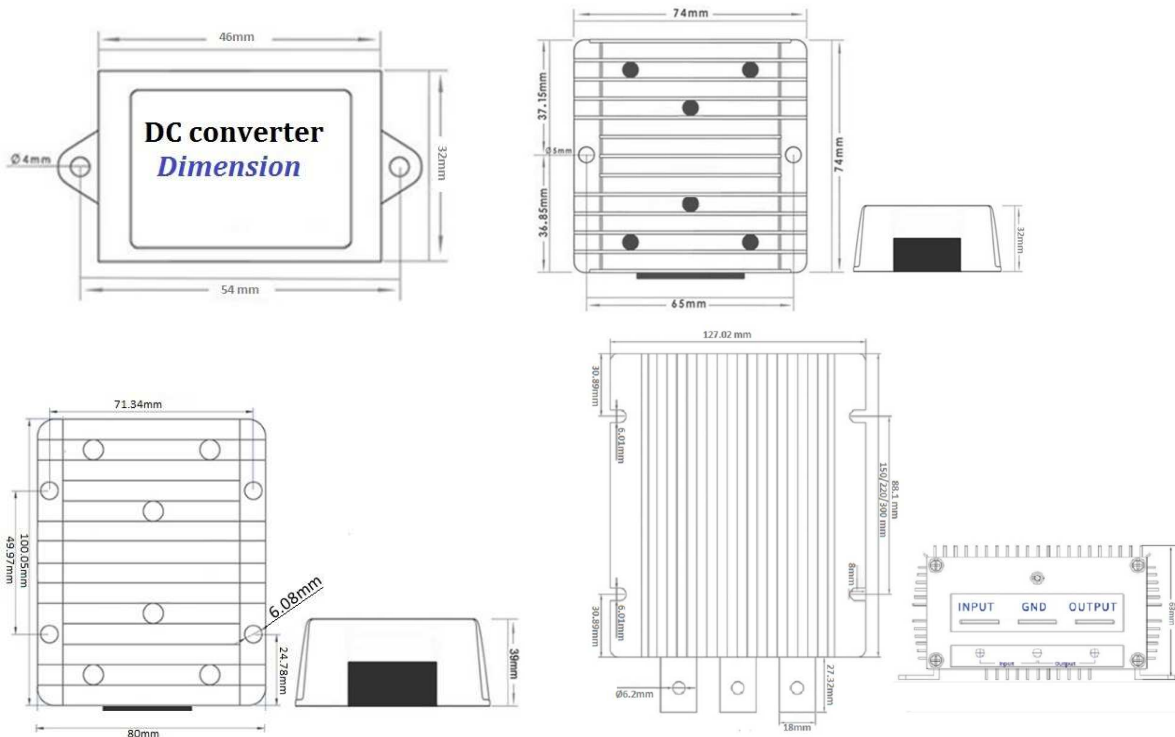
| Model | ADS24T12-70AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | Conversion efficiency | % | 91 |
| | Positive polarity | | Left terminal mark with "INPUT" |
| | Negative polarity | | Mid terminal mark with "GND" |
| Output | Voltage | V | 12 |
| | Voltage range | V | 11.9~12.1 |
| | Working current | A | 70 |
| | Peak current | A | 85 |
| | Rated power | W | 840 |
| | 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 | 220*127*63 |
| | Weight | g | 2300 |

| Model | ADS24T12-80AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | 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 | 80 |
| | Peak current | A | 85 |
| | Rated power | W | 960 |
| | 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 | 220*127*63 |
| | Weight | g | 2300 |

| Model | ADS24T12-90AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | 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 | 90 |
| | Peak current | A | 95 |
| | Rated power | W | 1080 |
| | 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 | 220*127*63 |
| | Weight | g | 2300 |

| Model | ADS24T12-100AL | | |
|---------------------|----------------------------|----|-----------------------------------------|
| Input | Rated voltage | V | 24 |
| | Voltage range | V | 18-36 |
| | 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 | 100 |
| | Peak current | A | 110 |
| | Rated power | W | 1200 |
| | 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 | 220*127*63 |
| | Weight | g | 2300 |

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