

# DC-DC POWER CONVERTERS

Convert 48VDC to 5VDC, 48VDC to 9VDC, 48VDC to 12VDC, 12VDC to 9VDC

## External 48VDC to +5VDC, 1A Power Converter



**PWR-48V-5V1A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 1A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 1.63x2.13x1.08 in (41x54x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 148,381 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 48VDC to +5VDC, 2A Power Converter



**PWR-48V-5V2A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 2A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 120,636 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: CE, RoHS

## External 48VDC to +5VDC, 4A Power Converter



**PWR-48V-5V4A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 18~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 4A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 186,911 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 48VDC to +5VDC, 10A Power Converter



**PWR-48V-5V10A-LT**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 10A load.
- 3-pole detachable screw terminal for input and output.
- 2.1x5.5mm male DC power jack.
- Dimensions WxDxH (in): 3.18x3.09x1.08
- Operating temperature: -40 to 158°F (-40 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

# DC-DC POWER CONVERTERS

Convert 48VDC to 5VDC, 48VDC to 9VDC, 48VDC to 12VDC, 12VDC to 9VDC

## External 48VDC to +9VDC, 0.6A Power Converter



**PWR-48V-9V0-6A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +9VDC and can handle 0.6A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 277,414 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 48VDC to +12VDC, 1.6A Power Converter



**PWR-48V-12V1-6A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 18~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +12VDC and can handle 1.6A load.
- Isolated up to 1.5kV.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 167,854 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: CE, RoHS

## External 48VDC to +12VDC, 1.6A Power Converter, Low Temperature Environments



**PWR-48V-12V1-6A-LT**

- External DC-DC converter.
- For use in low temperature environments.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 18~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +12VDC and can handle 1.6A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 167,854 hrs
- Operating temperature: -40 to 158°F (-40 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 48VDC to +48VDC, 1A Power Converter, Low Temperature Environments



**PWR-48V-48V1A-LT**

- Extender DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 18~75VDC (48VDC nominal).
- Accepts positive or negative polarity.
- Outputs 48VDC and can handle 1A load.
- Isolated up to 1.5kV.
- 3-pole detachable screw terminal for input and output.
- 2.1x5.5mm male DC power jack.
- Dimensions WxDxH (in): 3.18x3.09x1.08 in (81x78x27 mm).
- Operating temperature: -40 to 176°F (-40 to 80°C).
- Efficiency: 89%.
- Regulatory approvals: RoHS.

# DC-DC POWER CONVERTERS

Convert 48VDC to 5VDC, 48VDC to 9VDC, 48VDC to 12VDC, 12VDC to 9VDC

## External 24VDC to +5VDC, 2A Power Converter



**PWR-24V-5V2A**

- External DC-DC converter.
- Use the power converter to install NTI products in a Telecom environment.
- Accepts 18~36VDC (24 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 2A load.
- 3-pole detachable screw terminal for connecting 48V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 12VDC to +9VDC, 0.6A Power Converter



**PWR-12V-9V0-6A**

- External DC-DC converter.
- Accepts 9~18VDC (12VDC nominal).
- Accepts positive or negative polarity.
- Outputs +9VDC and can handle 0.6A load.
- 3-pole detachable screw terminal for connecting 12V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 3.18x3.09x1.08.1 in (81x78x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 259,929 hrs
- Operating temperature: -13 to 158°F (-25 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## External 12VDC to +5VDC, 1.5A Power Converter



**PWR-12V-5V1-5A-LT**

- External DC-DC converter.
- Accepts 9~18VDC (12VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 1.5A load.
- 3-pole detachable screw terminal for connecting 12V input.
- 2.1x5.5 mm (0.083x0.22 in) male DC power jack.
- Dimensions WxDxH: 1.63x2.13x1.08 in (41x54x27 mm)
- Includes a 3-foot (0.91-meter) female-to-female DC power cable.
- MTBF: 840,375 hrs
- Operating temperature: -40 to 158°F (-40 to 70°C).
- Efficiency: 80%, ±5%
- Regulatory Approvals: RoHS

## Internal 48VDC to +5VDC, 2A Power Converter



- Optional internal DC-DC converter.
- Add the power converter option to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 2A load.
- 3-pole detachable screw terminal for connecting 48V input.
- MTBF: 120,636 hrs
- Add **-48V5V2A** to NTI part number.

# DC-DC POWER CONVERTERS

**Convert 48VDC to 5VDC, 48VDC to 9VDC, 48VDC to 12VDC, 12VDC to 9VDC**

## Internal 48VDC to +5VDC, 10A Power Converter



- Optional internal DC-DC converter.
- Add the power converter option to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs +5VDC and can handle 10A load.
- 3-pole detachable screw terminal for connecting 48V input.
- MTBF: 124,862 hrs
- Add **-48V5V10A** to NTI part number.

## Internal 48VDC to +5VDC, 10A Power Converter



- Optional internal DC-DC converter.
- Add the power converter option to install NTI products in a Telecom environment.
- Accepts 36~72VDC (48 VDC nominal).
- Accepts positive or negative polarity.
- Outputs  $\pm 5$ VDC and each converter can handle 10A load.
- Two 3-pole detachable screw terminals for connecting 48V inputs.
- MTBF: 62,431 hrs
- Add **-48V5V10A2** to NTI part number.