

# NX SERIES ISOLATED DC-DC CONVERTERS

The NX series represents state-of-the-art, high reliability isolated dc-dc converters suitable for wall, bulkhead or DIN-Rail mounting. Providing full isolation, these converters are particularly suitable for telecommunication and industrial applications for power levels up to 300 Watts. *If your application requires higher power output (up to 5kW) or special features including input/output circuit breakers, output voltage and current monitoring, ground fault detection, remote control, etc., please refer to MKIIIR Series.*

Input Voltage	12V, 24V, 36V, 48V, 72V, 120V or 250 V.
Output Voltage	5V, 9V, 12V, , 15V, 24V, 36V, 48V, or 120V are standard.
Output Power	Up to 300 Watts, model dependant
Output Ripple	50mV max. for Vout <24V; 100mV max for Vout >24V
Regulation	Better than +/- 1% .
Isolation	1000 Vdc input or output to chassis; 1500 Vdc input to output
EMI	EN55022 Class A
Protection	Fused input, current limit, input dc polarity and short circuit protection.
Environmental	Operating Temp. -10°C to +40°C. Humidity: Up to 90% RH, non-condensing.
Enclosure	Rack mount, wall mount, DIN Rail. Size according to power level and options.
Options	N1. Conformal coated PCB. N2. Power on/off switch, power LED, and output adjustment control. N3. Converter input and/or output failure alarm, Form-C contacts. N4. 19 or 23-inch rack mount adapter, or DIN Rail adapter N5. Parallel operation with isolation diode.. N6. Non-standard input/output voltage and customization.



8.0"W x 11.0"L x 3.0"H, Bench, Wall Mtg



2RU, 19 or 23-inch Rack



6.5"x 7.5" x 3.2" Extruded Cabinet



4.5"L x 3.5"W x 1.25"H, Wall or Din-Rail Mtg



9.0"L x 6.25"W x 1.25"H, Open Frame



3.0"L x 3.0"W x 1.4"H, Wall or DIN-Rail Mtg

INPUT	VOLTS OUT	AMPS OUT
12 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10 Amp
	12.0V	1, 2, 3, 5, 10 Amp
	15.0V	1, 2, 3, 5, 8 Amp
	24.0V	1, 2, 3, 4 Amp
	36.0V	1, 2, 3 Amp
	48.0V	1, 2 Amp

INPUT	VOLTS OUT	AMPS OUT
24 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	36.0V	1, 2, 3, 5, 8 Amp
	48V	1, 2, 3, 4 Amp

INPUT	VOLTS OUT	AMPS OUT
36 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	36.0V	1, 2, 3, 5, 10 Amp
	48V	1, 2, 3, 4 Amp
	120.0V	0.1, 0.25, 0.5, 1.0, 1.5 Amp

INPUT	VOLTS OUT	AMPS OUT
48 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	48V	1, 2, 3, 4 Amp
	120.0V	0.25, 0.5, 1.0, 1.5, 2 Amp

INPUT	VOLTS OUT	AMPS OUT
72 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	36V	1, 2, 3, 4, 5 Amp
	48V	1, 2, 3, 5 Amp
	120.0V	0.25, 0.5, 1.0, 1.5, 2.0 Amp

INPUT	VOLTS OUT	AMPS OUT
120 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	36.0V	1, 2, 3, 5, 10 Amp
	48V	1, 2, 3, 5 Amp
	120.0V	0.25, 0.5, 1.0, 1.5, 2.0 Amp

INPUT	VOLTS OUT	AMPS OUT
250 Vdc	5.0V	1, 2, 3, 5, 10, 15, 20, 30 Amp
	9.0V	1, 2, 3, 5, 10, 15, 20 Amp
	12.0V	1, 2, 3, 5, 10, 15, 20 Amp
	15.0V	1, 2, 3, 5, 10, 15 Amp
	24.0V	1, 2, 3, 5, 10 Amp
	36.0V	1, 2, 3, 5, 10 Amp
	48V	1, 2, 3, 5 Amp
	120.0V	0.25, 0.5, 1.0, 1.5, 2.0 Amp

#### Ordering Information

**NX-xxx-xxx-xxx**  
 — Output Amps  
 — Output Volts  
 — Input Volts

EXAMPLE: Model number for a 48 Vdc input, 12 Vdc output at 10 Amps is NX48-12-10. Specify options required by option number.