

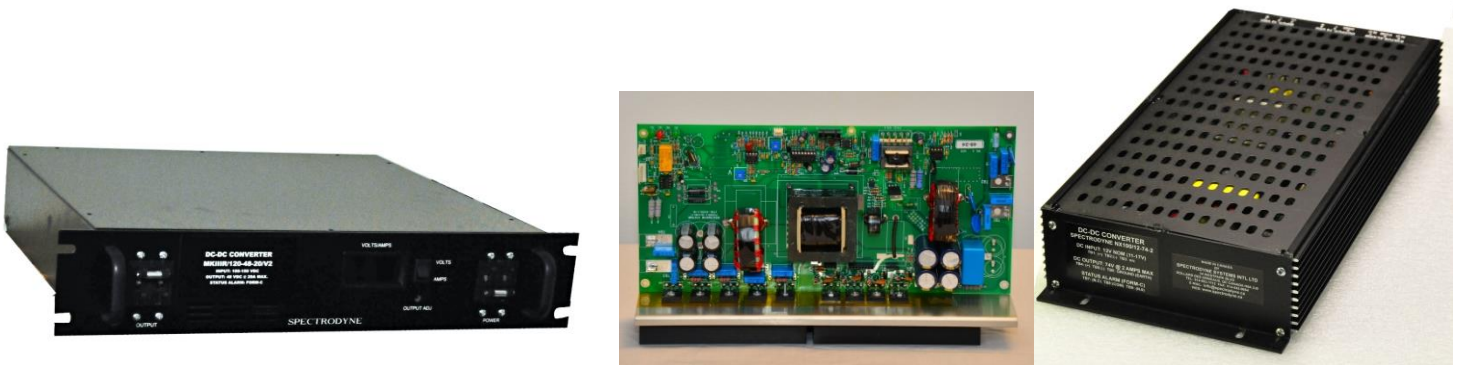
TECHNICAL SPECIFICATIONS

SPECTRODYNE NX SERIES

ISOLATED DC-DC CONVERTERS

Spectrodyne NX Series Converters are recommended for applications that do not require metering and input/output circuit breakers. These NX Series Converters are ideal for OEM applications or where the User prefers to use their own external controls and indicators.

NX Series Converters are designed for high-end, high-reliability industrial applications: Telecom, Industrial Processing, Power & Hydro Plants, Fuel Cells, ground isolation, polarity inversion etc.



STANDARD FEATURES

- High reliability, 20 Year life design.
- Designed to CSA, UL, CE (UL ANSA 1012 CE).
- Quality management per ISO9000.
- Complete galvanic isolation: input to output & ground.
- Fully regulated, filtered and protected: Overload, over-voltage, over-temperature, reverse polarity.

TECHNICAL SPECIFICATIONS

DC Input	Standard input DC (nominal): 12V, 24V, 36V, 48V, 72V, 120V, 250V or 350V.
DC Output	Standard output DC (nominal): 12V, 24V, 36V, 48V, 72V, 120V or 250V.
Output Voltage Adj.	Optional: Output can be adjusted via front panel control (Version V2, V3). Typical adjustment range is +/- 10% for 12V and 24V output units, +/-5% for 48V, 120V and 250V output units.
Output Current	From 0.05 to 100 Amps (user specified), model dependant.
Regulation	Line: 0.5% typical. Load: better than +/-1%.

SPECTRODYNE NX SERIES DC-DC CONVERTERS

Ripple & Noise	Less than 50mV (32 dBrc) for 12V and 24V output units; less than 75mV (32 dBrc) for 48V output units; less than 100mV for 120V and 250V output units.
Protection	Brownout, surge, transients, and indirect lightning protection. Overload and short circuit protection. Current walk-in (soft start).
Isolation (Dielectric)	CSA C22.2 # 107.2.01. EMI: EN55022 class A, FCC 20780 class A. Surge withstanding: ANSA C37.90.1.
Polarity Protection	Reverse battery DC input protection is provided.
Alarm	Activated if input or output failure, or an overload condition occurs.
Efficiency	90% typical, model dependant.
Cooling	Convection or forced air cooling, model dependant.
Temperature Range	Standard: -10°C to +40°C.
Storage Temperature	-40°C to +75°C
Humidity	0 to 95%, non-condensing.
Enclosures	Various enclosures: Wall mount or rack mount.

OPTIONS AND ACCESSORIES

Option A1	Extended temperature range (-30°C to +60°C).
Option A2	User output adjustment control.
Option A3	Alarm output (overload or input/output failure), Form-C dry contacts.
Option A4	Adapter for rack mounting.
Option A5	Customer-specified customization including Open frame assemblies for OEM use.

SPECTRODYNE SYSTEMS INTERNATIONAL LTD

34 WESTPARK BLVD, DOLLARD DES ORMEAUX, QC CANADA H9A 2J6

Tel: (514) 683-1112 Fax: 514-542-0654

E-mail: info@spectrodyne.ca Web: www.spectrodyne.ca