



Model N2412-12



Model N2412-24



# Product Data Sheet

## DC-DC Converter Series

### Power Supplies

#### Isolated and Non-Isolated

#### 13.8 VDC @ 12 / 24 Amps

### Key Features

- Input voltage range: 22 to 72Vdc, depending upon model
- Handles up to an extra 25% peak current during peak power events
- Built-in protections: Overvoltage, overcurrent and short-circuit protections with crowbar on Non-Isolated models
- Up to 94% efficiency
- 48V Isolated models meet SAE-J1113-11 specification for Immunity to Transients (Surges)
- LED visual indicators: DC-OK (Green) and Fault (Red)
- Includes a separate Remote ON/OFF connection terminal for use with an ignition switch
- High quality heavy duty industrial metal construction with easy access Terminal Block screw connections
- RoHS (lead free) compliant

### Applications

#### Critical Power Solution for 13.8Vdc Mobile Equipment

These DC-DC Converter power supplies are ideally suited for use with mobile 12/13.8 VDC equipment. Both Isolated and Non-Isolated models are available. The design technology emphasizes high efficiency, tight regulation and low ripple/noise. To meet individual peak power requirements, models support peak currents up to 25% above nominal.

#### Protection Features

All models have built-in protection features including output current limiting, overvoltage protection, internal fuse protection, and over temperature shutdown. Isolated models include a crowbar on the output to prevent damage.

#### Easy installation, safety and reliability

These units integrate seamlessly with standard 12/13.8 VDC equipment. Screw-type terminal connections are used which are easily accessible and ensure a safe and reliable installation.

### Electrical Specifications

<b>OUTPUT VOLTAGE</b>	13.8 VDC
<b>MINIMUM EFFICIENCY (at Full Load)</b>	92% min Non-Isolated models; 90% min Isolated models
<b>TEMPERATURE</b>	Operating: -25 to +55°C, Storage: -40 to +85°C Overtemperature setting at 70°C max

### Non-Isolated Models

Model	Input Voltage	Continuous Output	Peak Current ICS (*)	Size (H x W x D)	Wt lbs (kg)
A4812-12	30 to 56 Vdc	9 A	12 A max	1.8 x 6.2 x 5.8	1.8 (0.8)
A4812-24	30 to 56 Vdc	18 A	24 A max	1.8 x 6.2 x 6.8	2.0 (0.9)
N2412-12	22 to 32 Vdc	10 A	12 A max	1.8 x 6.2 x 5.8	1.8 (0.8)
N2412-24	22 to 32 Vdc	20 A	24 A max	1.8 x 6.2 x 6.8	2.0 (0.9)

### Isolated Models

Model	Input Voltage	Continuous Output	Peak Current ICS (*)	Size (H x W x D)	Wt lbs (kg)
ISO4812-12	36 to 72 Vdc	10 A	12 A max	1.8 x 6.2 x 6.8	2.0 (0.9)
ISO4812-24	36 to 72 Vdc	20 A	24 A max	1.8 x 6.2 x 7.3	2.1 (1.0)
ISO2412-12	22 to 32 Vdc	10 A	12 A max	1.8 x 6.2 x 6.8	2.0 (0.9)
ISO2412-24	22 to 32 Vdc	20 A	24 A max	1.8 x 6.2 x 7.3	2.1 (1.0)

(\*) Intermittent Communication Service. Peak current limited to 50% max Duty Cycle, 5 minutes max ON time.



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9 Autry, Irvine, CA 92618 • (949) 458-7277 • Fax: (949) 458-0826