

# DC-DC Converters—Standard Series



Convert 20-50 VDC to 12 or 24 VDC negative ground output for powering communication/navigation equipment, on negative ground systems. (See Isolated Series, opposite page for positive ground applications.) Ideal for powering voice, data and navigation transceivers in mobile and marine applications.

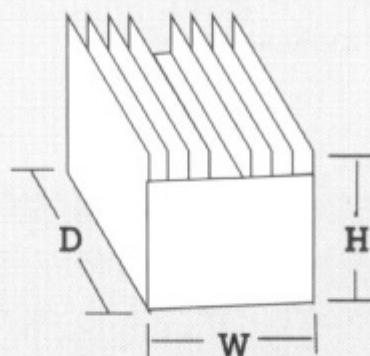
- Excellent Regulation: Output voltage maintained within 1% under all line and load conditions within rating
- Heat generated by semi-conductors is extracted and dissipated by large heat sink fins that maximize air contact for cool operation and long life components.
- Polyurethane conformal coating on PC boards and corrosion-resistant anodized aluminum case with heavy duty shock mounts assure survival in hostile environments.
- Numerous converter and load protection circuits: Current limiting; automatic thermal shutdown; short circuit proof; reverse polarity and over-voltage protection.

Model	Input Voltage	Output Voltage	Output AMPS		Case Ref.	Weight	
			Inter-mittent	Contin-u-ous		Lb.	Kg.
32-12-3	20-40	13.6	3	2	C-1	2	.9
32-24-3	32-40	24.5	3	2	C-1	2	.9
32-12-6	20-50	13.6	6	6	C-10	2.5	.9
32-24-6	32-50	24.5	6	6	C-10	2.5	.9
32-12-10	20-50	13.6	10	10	C-2	4	1.8
32-24-10	32-50	24.5	10	10	C-2	4	1.8
32-12-15	20-50	13.6	15	15	C-2	5	2.3
32-24-15	32-50	24.5	15	15	C-2	5	2.3
32-12-25	20-50	13.6	25	20	C-3	7.5	3.4
32-24-25	32-50	24.5	25	20	C-3	7.5	3.4
32-12-35	20-50	13.6	35	30	C-4	12	5.5
32-24-35	32-50	24.5	35	30	C-4	12	5.5
32-12-50	20-50	13.6	50	40	C-5	16	7.3
32-24-50	32-50	24.5	50	40	C-5	16	7.3

## Options

- 24 VDC output
- Operation as battery charger or parallel redundant operation—de-rate to continuous duty rating (contact factory)
- Extreme vibration mounting kit

## Case Size



## Dimensions

	Inches			Centimeters		
	H	W	D	H	W	D
C-1	2.7	4.5	6.0	6.9	11.4	15.2
C-2	4.5	5.9	11.0	11.4	15.0	27.9
C-3	6.0	4.7	14.0	15.2	11.9	35.6
C-4	6.0	4.7	16.0	15.2	11.9	40.6
C-5	6.2	6.8	18.1	15.7	17.3	46.0
C-10	2.8	4.2	10.4	7.1	10.7	26.4

## Performance Specifications

**Output:** 13.6 VDC (internally adjustable 12.6-14.5) or 24.5 VDC (or specify)

**Ripple:** 150 mV P-P Max.

**Regulation:** 1% Line/Load

### Duty Cycle Ratings:

**Intermittent**—20 minutes max on time, 20% duty Current limit set at approx. 105% of intermittent rating

**Continuous**—24 hours, 100% duty

**Idle Current:** Less than 100 mA (including power 'ON' light)

**Operating Temp:** 0-50°C, de-rate linearly from 100% @ 40°C To 50% @ 50°C

Thermal shutdown @ 70°C Case Temperature

### Switching

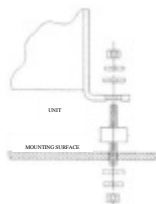
**Frequency:** 40Khz

**Efficiency:** 85% Typical

**Isolation:** Output/Chassis; Input/Chassis: 250 VDC

**Certification:** Carries the CE Mark

## Option: Extreme Vibration Mounting Kit



The Extreme Vibration Mounting Kit is available to protect NEWMAR power converters from the extreme stresses of shock and vibration when mounted on high-vibration vehicles.

The kit (pictured here) replaces the standard vibration kit

provided with the unit and fits into the unit's mounting flange to act as a 'super shock absorber' for electronics in high-vibe applications. It is available to fit all NEWMAR units from 2 to 70 lbs. Specify KIT-L for units which weigh 2-15 lbs. And KIT-H for units which weigh 16-70 lbs.