

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 for positive ground applications.) Ideal for powering voice and data transceivers in mobile applications.

Note: All models are now CE Certified for use in the European Union



Product Features

- **Excellent Regulation**
 - Output voltage maintained within 1% under all line and load conditions within rating
- **Numerous Converter and Load Protection Circuits**
 - Current limiting*; automatic thermal shutdown; short circuit proof*; reverse polarity and overvoltage protection*. * Except 3 Amp. Model.
- **Heat Generated by Semi-Conductors**
 - Extracted and dissipated by large heat sink fins that maximize air contact for coolest operation and long life of components.
- **Polyurethane Conformal Coating**
 - On PC boards and corrosion-resistant anodized aluminum case with heavy duty shock mounts assure survival in hostile environments.

Product Specifications

Output	13.6 VDC (internally adjustable 12.6-14.5) or 24.5 VDC (or specify)
Ripple	150 mV P-P maximum
Regulation	1% line and load
Duty Cycle Ratings*	Intermittent - 20 minutes, 20% duty; Continuous - 24 hours, 100% duty
Idle Current	Less than 100 mA (including power "ON" light)
Operating Temp	0-40° C, Derate Linearly To 50% @ 50° C; Thermal shutdown @ 70° C Case Temperature
Switching Frequency	40 Khz**
Efficiency	85% - Typical.†
Isolation Output/Chassis; Input/chassis	250 VDC
*Exceeds EIA standards / **32-12-3 =Linear, Non-Switching / †32-12-3=50% @ 24VDC Input	
Options	24 VDC output Operation as battery charger or parallel redundant operation* derate to continuous duty rating Extreme vibration mounting kit
* Except Models: 32-12-3A, 32-12-6C	

Model Selection Guide

Option: High Vibration Mounting Kit

To protect power converters from the extreme stresses of shock and vibration when mounted on highvibration vehicles, the High Vibration Mounting Kit is available.

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 units from 2 to 70 lbs. Specify KITL for units which weigh 215 lbs. and KitH for units which weigh 16-70 lbs.

Model	Input Voltage	Output Voltage	Output Amps Intermittent	Output Amps Continuous	Case Size	Weight																																																								
32-12-3	20-40	13.6	3	2 2	2.7"H x 4.5"W x 6.0"D (6.9 x 11.4 x 15.2 cm)	2 lbs (.9 kg)																																																								
32-24-3	32-40	24.5					32-12-6	18-50	13.6	6	6	2.8"H x 4.2"W x 10.5"D (7.1 x 10.7 x 26.7 cm)	2 lbs (.9 kg)	32-24-6	32-50	24.5	32-12-10	20-50	13.6	10	10	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	4 lbs (1.8 kg)	32-24-10	32-50	24.5	32-12-15	20-50	13.6	15	15	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	5 lbs (2.3 kg)	32-24-15	32-50	24.5	32-12-25	20-50	13.6	25	20	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	7.5 lbs (3.4 kg)	32-24-25	32-50	24.5	32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)	32-24-35	32-50	24.5	32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)
32-12-6	18-50	13.6	6	6	2.8"H x 4.2"W x 10.5"D (7.1 x 10.7 x 26.7 cm)	2 lbs (.9 kg)																																																								
32-24-6	32-50	24.5					32-12-10	20-50	13.6	10	10	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	4 lbs (1.8 kg)	32-24-10	32-50	24.5	32-12-15	20-50	13.6	15	15	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	5 lbs (2.3 kg)	32-24-15	32-50	24.5	32-12-25	20-50	13.6	25	20	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	7.5 lbs (3.4 kg)	32-24-25	32-50	24.5	32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)	32-24-35	32-50	24.5	32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)	32-24-50	32-50	24.5						
32-12-10	20-50	13.6	10	10	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	4 lbs (1.8 kg)																																																								
32-24-10	32-50	24.5					32-12-15	20-50	13.6	15	15	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	5 lbs (2.3 kg)	32-24-15	32-50	24.5	32-12-25	20-50	13.6	25	20	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	7.5 lbs (3.4 kg)	32-24-25	32-50	24.5	32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)	32-24-35	32-50	24.5	32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)	32-24-50	32-50	24.5																
32-12-15	20-50	13.6	15	15	4.5"H x 5.9"W x 11.0"D (11.4 x 15.0 x 27.9 cm)	5 lbs (2.3 kg)																																																								
32-24-15	32-50	24.5					32-12-25	20-50	13.6	25	20	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	7.5 lbs (3.4 kg)	32-24-25	32-50	24.5	32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)	32-24-35	32-50	24.5	32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)	32-24-50	32-50	24.5																										
32-12-25	20-50	13.6	25	20	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	7.5 lbs (3.4 kg)																																																								
32-24-25	32-50	24.5					32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)	32-24-35	32-50	24.5	32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)	32-24-50	32-50	24.5																																				
32-12-35	20-50	13.6	35	30	6.0"H x 4.7"W x 14.0"D (15.2 x 11.9 x 35.6 cm)	12 lbs (5.5 kg)																																																								
32-24-35	32-50	24.5					32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)	32-24-50	32-50	24.5																																														
32-12-50	20-50	13.6	50	40	6.2"H x 6.8"W x 18.1"D (15.7 x 17.3 x 46.0 cm)	16 lbs (7.3 kg)																																																								
32-24-50	32-50	24.5																																																												