

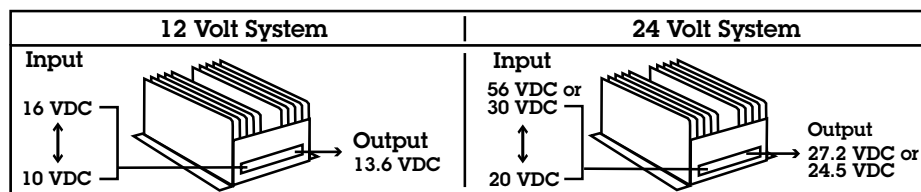
# DC Power Conditioners



12-12-3I

## 12 & 24 Volt Stabilizing Converters

Feed sensitive electronics with proper voltage regardless of battery condition. These stabilizing converters provide continuous, precisely regulated output over the entire range of a battery's usable voltage. This prevents subjecting loads to fluctuating input voltage which can cause shutdown, diminish performance and possibly damage sensitive circuitry.



### Application benefits include:

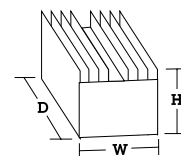
- Operate electronics at optimal input voltage, even from nearly drained batteries
- Boost voltage to compensate for voltage drops in long wire runs from batteries
- Eliminate voltage drops during momentary high current drain from batteries, as during engine start
- Eliminate voltage fluctuation from charge sources
- Eliminate voltage overshoot due to sudden removal of high current load

### Options/Factory Modifications

- Operation as a battery charger (contact factory)
- Parallel/redundant operation (contact factory)
- High vibration mounting kit (see page 24)
- Non-standard output voltage (contact factory)

These converters provide total input/output isolation, virtually eliminating conducted line noise and permitting connection of negative ground loads to positive or floating ground systems, or vice versa. They can also be modified for use as battery chargers, allowing maintenance of a battery at a great distance from the charging source, providing reserve power if the main source fails. The rugged anodized aluminum case is ideal for mobile applications

Model	Input voltage	Output voltage	Output Amps Intermittent	Case Size (H x W x D)		Weight	
				Inches	Centimeters	Lbs.	Kg.
12-12-3I	10-16	13.6	3	3.5 x 3.5 x 1.75	8.9 x 8.9 x 4.5	1	.45
12-12-6I	10-16	13.6	6	3.5 x 3.5 x 1.75	8.9 x 8.9 x 4.5	1	.45
12-12-12I	10-16*	13.6	12	4.25 x 5.9 x 14.0	10.8 x 15.0 x 35.6	6	2.7
12-12-35I	10-16*	13.6	35	6.0 x 6.8 x 16.5	15.2 x 17.3 x 41.9	12	5.5
24-24-3I	20-32	27.2	3	6.0 x 6.8 x 16.5	15.2 x 17.3 x 41.9	12	5.5
24-24-7I	20-32	27.2	7	7.0 x 3.5 x 1.75	7.0 x 3.5 x 1.75	2	.9
48-24-9I	20-56	24.5	9	4.25 x 5.9 x 14.0	10.8 x 15.0 x 35.6	8	3.6
48-24-18I	20-56	24.5	18	6.0 x 6.8 x 16.5	15.2 x 17.3 x 41.9	12	5.5



\*11.5 VDC minimum start-up voltage, then operates @ 10-16 VDC from 1 amp minimum to full load

See page 19, for additional Isolated Series Converters specifications and mechanical description.

## Noise Filters

The interference or electronic "noise" generated by alternators, ignition systems, motors, etc., can render a vehicle's radio, data receivers or other electronic equipment virtually useless. This interference takes the form of popping or static on radios or audio gear and garbled images or "hash" on video displays.

These specialized filters can be used singly or in combination to attenuate conducted line noise, either at the affected equipment or at the noise source. The "PC" models feature inductor and capacitor circuit that filters both the "+" and "-" leads. The "IF" model utilizes an inductor and filters the "+" lead only.

### Filter Features

- Heavy duty construction
- Operate on 6-48 VDC systems
- Integral mounting flanges for secure installation, except model IF-16 which is secured in place by tie-wrap
- Nickel-plated brass stud connectors on alternator filter (model 150A) accommodate high current cables and terminals
- Color coded wire leads on all other models make in-line installation easy

### Models

- 150A** Alternator filter, 150 amps
- PC-10** Affected equipment inductor/capacitor, filters "+" and "-" leads, 10 amps
- PC-25** Affected equipment inductor/capacitor, filters "+" and "-" leads, 25 amps
- IF-16** Affected equipment inductor, filters "+" lead only, 16 amps



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