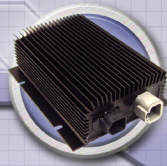
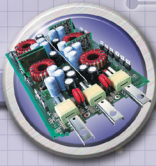
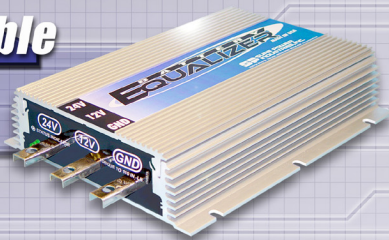


# dc-dc battery CONVERTERS/EQUALIZERS

A World Leader  
in Vehicle Electronic  
Engineering

## Pure Reliable Power



### Special Design Features Include:

Low standby current drain - typically 5mA or less

-40 to +85°C operating temperature at full current derated at higher temperatures

Thermally protected for over temperature conditions

Short circuit and over current protected

Reverse polarity protected

Over voltage/low voltage protected

Will continuously stand off up to 100Vdc

Loss of ground protected

EMI/EMC Compliance-Depending upon the requirements, we offer models designed to meet specific customer, SAE, ISO, E mark, CE or military standards

Operating input voltage range from 9V-96Vdc negative ground

Shock and vibration resistant

Environmentally protected and splash-proof sealed models available

Typical efficiency of 94%

Units can be paralleled for greater output capacity

**Sure Power Industries offers an expanded line of DC-DC Converters and Battery Equalizers from low to high output current capabilities (2.5 amps to 100 amps). Sure Power is keeping pace with the growing demands for dual voltage applications.**

The Sure Power Battery Equalizer maintains battery balance or "equalization" in a predominantly 24V system that requires 12V power. The Sure Power Battery Equalizer can deliver up to 100 amps of continuous 12V current for practically any 12V load ranging from fare boxes, destination boards, two way radios, transmission controls, to engine controls and lighting. Sure Power DC-DC Converters continue to provide regulated power directly to accessory or main loads. Sure Power offers DC-DC Converters producing up to 40 amps at 24V from a 12V source and up to 100 amps at 12V from a 24V source. Sure Power offers a wide variety of features and multiple levels of protection.

MODEL	VOLTAGE INPUT	VOLTAGE OUTPUT	OUTPUT CURRENT	FUNCTION	SPECIAL FEATURES
41222	12	24	10	EQUALIZER	OUTPUT CURRENT @ 105°C SWITCHED & UNSWITCHED OUTPUTS
12010X	12	24	10	CONVERTER/EQUALIZER	SWITCHED OUTPUT
12025X	12	24	25	CONVERTER/EQUALIZER	SWITCHED OUTPUT/AVAILABLE OFFSET OUTPUT
12040X	12	24	40	CONVERTER/EQUALIZER	SWITCHED OUTPUT W/OFFSET OUTPUT
52100	24	12	2.5	CONVERTER	SWITCHED & UNSWITCHED OUTPUT
21008000	24	12	8	CONVERTER	SWITCHED & UNSWITCHED OUTPUT
21012000	24	12	12	CONVERTER	SWITCHED & UNSWITCHED OUTPUT
21015000	24	12	15	CONVERTER	SWITCHED & UNSWITCHED OUTPUT
21020000	24	12	20	CONVERTER	SWITCHED & UNSWITCHED OUTPUT
21030X00	24	12	30	CONVERTER/EQUALIZER	SWITCHED & UNSWITCHED OUTPUT
21040X00	24	12	40	CONVERTER/EQUALIZER	HIGH CURRENT CONVERTER
21080X00	24	12	80	CONVERTER/EQUALIZER	HIGH CURRENT CONVERTER
21080X00	24	12	80	CONVERTER/EQUALIZER	HIGH CURRENT CONVERTER
21100E	24	12	100	EQUALIZER	HIGH CURRENT EQUALIZER
5210FB	24	12	100	EQUALIZER	HIGH CURRENT W/ENHANCED SEALING
41102	9-16	14	10	VOLTAGE CONDITIONER	
41102TC	9-16	14	10	VOLTAGE CONDITIONER	TEMPERATURE COMPENSATED
11020C	9-14	14	20	VOLTAGE CONDITIONER	
11020TC	9-14	14	20	VOLTAGE CONDITIONER/TRAIL CHARGER	
22010C	17-32	24	10	VOLTAGE CONDITIONER	

**SURE POWER**  
INDUSTRIES, INC.

A QS9000 CERTIFIED COMPANY

Tel. 503.692.5360/800.845.6269 Fax 503.692.9091 [surepower.com](http://surepower.com)

