

Series I

INVERTER/CHARGER



Designed Specifically for Recreational Vehicles

"The best quality of life improvement we ever made to our rig"

Trace Engineering offers the answer for cost effective Inverter/Chargers for any size RV. Now anyone can enjoy the benefits of AC power on demand. Get all the famous Trace Legend Series advantages and rugged reliability in one great package. Take household AC appliances and conveniences on the road without being tied to the shore power cord or dependent on a noisy generator. Use the microwave, TV, or tools anytime, day or night; then use shore power or your generator to automatically charge the battery with up to 50 amps of 3 stage, temperature compensated charging.

"We used to have to start the generator to run the microwave, now we have AC Power all the time"

Standard Features

- Choose from 3 models 600, 1100, or 1500 watts of high performance AC output.
- Very high surge allows great motor and microwave starting performance.
- Super "long term over-load" allows double the rated output for 5 minutes or more.
- Rugged design allows tough use and years of service.
- Compact size and easy wiring access allow hardwired connections and out-of-the-way Installations.
- High efficiency means hours of operation from your batteries.
- Adjustable low voltage DC disconnect protects batteries from over-discharge.
- Built-in protection against: over-current, short circuit, overvoltage, undervoltage, over-temperature.
- Low idle power and adjustable search mode protect batteries from discharge when the unit is not in use.

Standby Option (SB)

- Automatic 30 amp transfer switch allows transparent switch-over from battery to shore power or generator and back.
- Built-in 3 stage battery charger with temperature compensation charges fast and delivers optimum battery care.
- Selections for flooded or sealed/Gel Cell battery type.
- Selection for deep or shallow discharge protection.
- Automatic shore power black-out and brown-out protection.
- Automatic neutral/ground switching.

Optional Remote Controls

RC8

- Remote On/Off switch with status LED, shows Inverter/charger status and fault conditions.

RC9

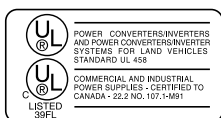
- Simple LED bar-graph displays DC voltage and current levels
- Inverter On/Off control
- Inverter/Charger status LEDs

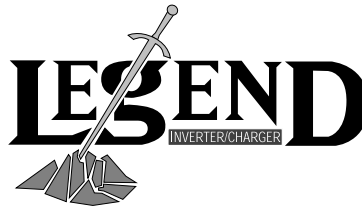
BTS

- Battery Temperature (BTS) allows the charger to compensate the charge rate based on temperature conditions.



Trace's Exclusive
5
Year Warranty





Series I

SPECIFICATIONS AND FEATURES (rev. 1.0)

MODEL	L612	L1112	L1512
Nominal DC Input Voltage	12 VDC	12 VDC	12 VDC
AC Output Voltage (RMS)	120 VAC	120 VAC	120 VAC
Nominal Frequency	60 HZ	60 HZ	60 HZ
Continuous Power @ 25°C	600 VA	1100 VA	1500 VA
Continuous Current @ 25°C	5 amps AC	9 amps AC	12 amps AC
Maximum Current (100 mSec surge)	18 amps AC	22 amps AC	65 amps AC
Maximum Power (Light Bulb Rating)	2500 W	3000 W	3400 W
Efficiency (peak)	92% max	90% max	92% max

DC INPUT REQUIREMENTS

Search Mode	0.022 A (0.4W)	0.045 A (0.5W)	0.060 A (0.7W)
On Mode (no load - idle)	0.400 A (5.0W)	0.450 A (5.5W)	0.600 A (7.0 W)
At Full Rated Power	63 amps	120 amps	153 amps
Input Voltage Range	10.8 to 15.5 VDC	10.8 to 15.5 VDC	10.8 to 15.5 VDC
Low Battery Cutout (w/out SB Option)	9.5 VDC	9.5 VDC	9.5 VDC
High Voltage Cutout	15.7 VDC	15.7 VDC	15.7 VDC

AC OUTPUT CHARACTERISTICS

AC Output Waveform	Modified sinewave
Voltage Regulation	+/- 5% Maximum, +/- 2.5% Typical
Power Factor Allowed	-1 to 1
Frequency Regulation	+/- 0.01% (crystal regulated)

ENVIRONMENTAL LIMITATIONS

Enclosure Type	Indoor, ventilated, steel chassis with powdercoat finish
Specified Temperature Range	32°F to 104°F (0°C to +40°C) (output will meet specified tolerances)
Allowed Operating Temperature Range	-40°F to 140°F (-40°C to +60°C) (output may not meet specified tolerances)
Dimensions - Inverter Only	10.5" high, 15.5" wide, 6" deep (when wall mounted)
Dimensions - Shipping	20.5" x 27" x 15.5"
Mounting	Wall or Shelf Mount
Weight - Inverter only	25 lbs (11.4 kg)
Weight - Shipping	30 lbs (13.6 kg)

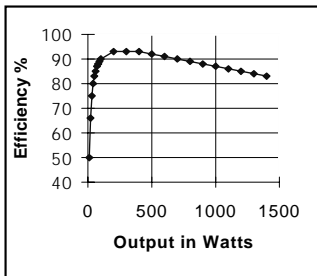
STAND-BY (SB) OPTION

Automatic AC Transfer Relay	30 amps AC	30 amps AC	30 amps AC
Maximum Battery Charging Rate	25 amps DC	50 amps DC	50 amps DC
3-stage Charger Regulation Method	Bulk (constant current), Absorption (constant voltage) and Float (maintenance voltage & current)		
Selectable Low Battery Cutout	9.5 VDC (allows deep discharge) or 11.8 VDC (for use with starting or shallow cycle batteries)		

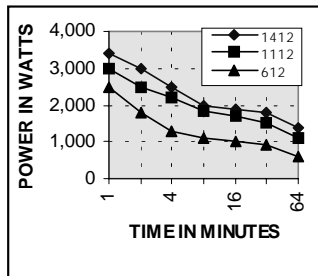
ADDITIONAL OPTIONS

Battery Temperature Sensor	BTS/15: 15 foot plug-in battery temperature sensor with phone jack (can be extended)
Remote Control Panel	RC8/10: 10 foot On/Off remote with LED status indicator RC8/25: 25 foot On/Off remote with LED status indicator

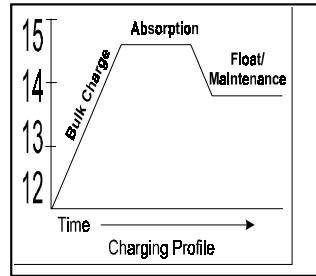
Note: All specifications are subject to change without notice



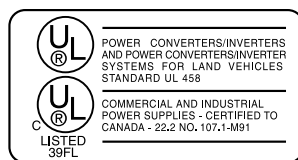
Typical Efficiency



Power vs. Time



Battery Charger Method



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