

# Series II

## INVERTER/CHARGER



### Designed Specifically for Recreational Vehicles

*"We have had inverters on our rigs for years, but this little beauty takes the cake. I never thought anything that does so much could be so simple to use."*

The Trace Legend Series II has set a new industry standard for performance, advanced features and user friendly operation. Flexible enough to meet the most sophisticated users needs and yet so simple to operate - set it and forget it. There are no dip switches or jumpers to set. All features are accessible via a menu driven remote display. Permanent memory stores your menu selections even if power is disconnected. It never needs reprogramming unless your power needs change.

High performance, high surge inverter power, three stage battery charger with temperature compensation, automatic shore power black-out protection, full feature remote controls with meters and battery fuel gauge.

### Standard Features

- 2k, 2.5k and 3kva models offer the most power of any RV inverter
- Adjustable battery charging from 10 amps DC to full rated charger output. (100, 120 or 140 amps)
- 3 stage battery charging with Temperature Compensation for optimum battery care.
- Dead battery re-charging
- Automatic battery charger back-off prevents shore power breaker tripping
- Automatic 30 amp transfer switch for transparent switch-over between battery and shore power or generator
- Selections for flooded or sealed (Gel Cell) battery charging
- Selection for deep or shallow cycle battery discharge protection
- Automatic neutral/ground switching for UL and NEC compliance
- Automatic shore power black-out protection

*"The RC7 is simply the best remote control ever offered. The battery fuel gauge alone is worth the price.."*

### Optional Remote Controls:

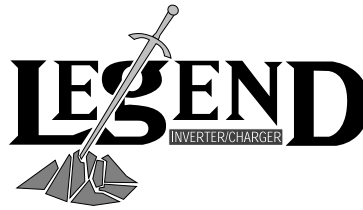
#### RC6

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

#### RC7

- Simple menu driven programming for full control of all inverter/charger features
- Three-level menu prevents accidental setting changes
- Built-in meters display DC voltage, DC current, AC voltage, and AC current
- RJ11 phone jack connection to inverter
- Built-in memory retains menu settings even with a loss of power
- Intelligent Built-in battery fuel gauge reports % of battery charge or time left to run read-out





# Series III

4/7/00

## SPECIFICATIONS AND FEATURES (rev. 1.0)

MODEL	L2012	L2512	L3012
Continuous Output Power @ 25°C	2000 VA	2500 VA	3000 VA
Continuous AC Output Current @ 25°C	16.6 amps AC	20.8 amps AC	25 amps AC
Efficiency (peak)	94%	94%	94%

### DC REQUIREMENTS

Normal Input Voltage	12 VDC	12 VDC	12 VDC
Input DC Voltage Range	10.2-15.5 VDC	10.2-15.5 VDC	10.2-15.5 VDC
Search Mode	0.055 amps DC	0.070 amps DC	0.080 amps DC
On Mode (no load - idle)	0.55 amps DC (6.3w)	0.60 amps DC (7.2w)	0.650 amps DC (7.9w)
At Full Rated Power	200 amps DC	250 amps DC	300 amps DC
Short Circuited Output	600 amps DC	800 amps DC	900 amps DC
Automatic Low Battery Protection	10.9 vdc or defeated	10.9 vdc or defeated	10.9 vdc or defeated
Adjustable Battery Charge Rate	10-100 amps DC	10-120 amps DC	10-140 amps DC
Minimum Recommended DC Fuse Size	300 amps DC	300 amps DC	400 amps DC
Minimum Recommended DC Cabling	#4/0 AWG	#4/0 AWG	#4/0 AWG

### AC OUTPUT CHARACTERISTICS

Voltage Regulation- Maximum	±5%
Voltage Regulation- Typical	±2.5%
Output Waveform	Modified sine wave
Power Factor Allowed	0 to +1
Frequency Regulation	60Hz ± .04%
Standard Output Voltage	120 VAC RMS
Adjustable AC Load Sensing	5 to 40 Watts AC
Automatic Transfer Relay	30 amps AC at 120VAC

### BATTERY CHARGER CHARACTERISTICS

Charging Profiles	Vented lead acid or sealed lead acid (Gel Cell)
Charging Process	Three stage charging process (Bulk, Absorption, & float)
Battery Temperature Compensation	With optional BTS sensor

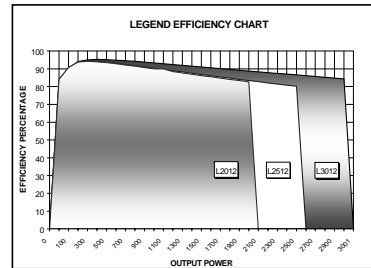
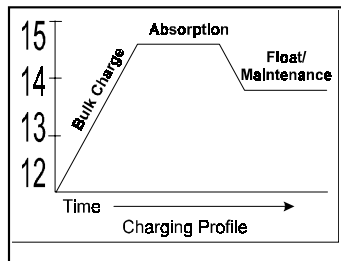
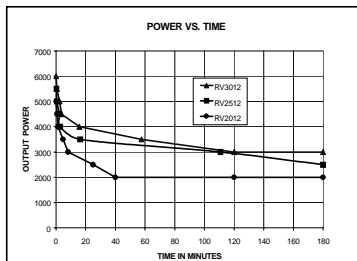
### OPTIONS

Remote Control	RC6 - Simple LED Bargraph DC voltage / ammeter with ON/OFF switch RC7 Full function remote control with LCD display and status LEDs
Battery Temperature Sensor (BTS)	BTS Sensor with 15 or 35 foot cable (plug in)
DC Fuse Block (TFB)	Class T fuse with holder and protective cover - 300 amp, and 400 amp sizes

### ENVIRONMENTAL

Forced Air Cooling	Variable Speed Brushless DC fan
Specified Temperature Range	32°F to +100°F (0°C to +40°C) (will meet specified tolerances)
Allowed Temperature Range	-40°F to +140°F (-40°C to +60°C) (may not meet specified tolerances)
Non-operating Temperature Range	-67°F to +167°F (-55°C to +75°C)
Enclosure Type	Indoor, ventilated, steel chassis with powdercoated finish
Dimensions - Inverter only	13.125" x 7.25" x 15.50"
Mounting Orientation	Shelf mount only
Unit Weight	45 lbs. (20.5kg)      50lbs. (22.7kg)      60lbs. (27.2kg)

Note: All specifications are subject to change without notice  
Adjustments require RC7 Remote Control



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THE POWER COMPANY

