



Model RV Series

INVERTER/CHARGER

Designed Specifically for Recreational Vehicle Applications

Trace Engineering now offers an inverter/charger series designed specifically for the needs of the recreational vehicle manufacturer. Now one inverter model can be used in several different configurations to meet the power and AC wiring requirements of all your different coach models.

Standard Features

- 2000, 2500 or 3000 watts of continuous power output in the same inverter chassis – makes it easy to upgrade a coach to handle higher AC power loads or to offer different inverter options to customers
- Built-in three stage battery charger for fast recharging and performance unmatched by AC to DC converters
- Includes automatic ground switching for compliance with NEC and RVIA standards
- Includes battery temperature sensor for automatic adjustment of the battery charger settings
- Compact design allows mounting in areas not previously possible (only 7" tall by 13" wide and 15" deep)
- Front located terminations makes installation and servicing simpler – the ON/OFF switch, power indicator, stacking/remote/battery temperature sensor are all located on the front for better access
- "No knobs" design reduces problems of customer tampering with setpoint adjustments

Automatic Transfer Switching

- Automatically transfers all AC loads from the inverter to power cord or generator once AC is available
- Can be installed to transfer up to 50 amps if coach is wired for 50 amp service
- Can be installed to transfer up to 30 amps if coach is wired for 30 amp service
- Allows the charger to be powered on a separate circuit from the AC loads (if coach is wired for 50 amp service)
- Charger's output is automatically reduced when other loads are running to prevent overloading AC power cords or generators

Automatic Generator Start

Built in automatic generator start system with night time lock-out (requires RC7GS remote for setup)

Optional LED Remote Monitor (RC6)

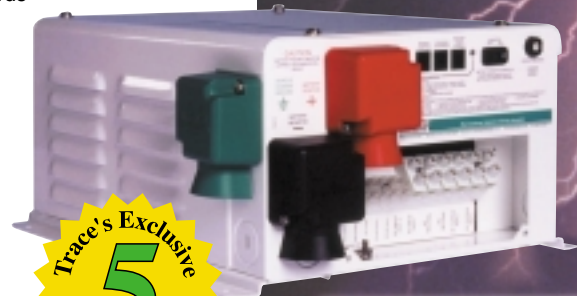
- Simple LED barograph displays of battery voltage & DC current with inverter/charger status LED indicators

Optional LCD Remote Control and Display (RC7)

- Three level menu system separates the meters and status displays from the setup menu system to reduce complexity for users and prevents accidental changes to the settings
- Simple phone wire type connection for easy installation and reliable operation
- Built-in memory retains settings in the inverter even after the remote is disconnected or even while the inverter is being shipped – the RC7 can be used to set up the inverter during installation and then removed
- Intelligent battery "state of charge" measurement system makes checking the battery as easy as reading a fuel gauge – displays status of the battery including time remaining for operating at the present load level or the time required for recharging the battery at the present charging rate
- Built in battery current sensor allows monitoring of other DC loads and charging rate from other DC sources (alternators, solar etc.) in addition to all AC currents and voltage levels without requiring additional wiring

Optional LCD Remote Control with Auto Genstart Feature (RC7GS)

- Same features as RC7
- Programmable to auto start Onan Quiet Diesel and PowerTech generators (call for more information about other brands or models)



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Specifications and Features

MODEL	RV 2012	RV2512	RV3012
Continuous Output Power @ 25°C	2000 VA	2500 VA	3000VA
Continuous AC Output Current @ 25°C	16.6 amps AC	20.8 amps AC	25 amps AC
Maximum AC output	44 amps AC	48 amps AC	52 amps AC
Efficiency (peak)	94%	94%	94%

DC REQUIREMENTS

	RV 2012	RV2512	RV3012
Normal Input Voltage	12 VDC	12 VDC	12 VDC
Voltage Regulation - Typical	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)	0.65 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	12-120 amps DC	14-140 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 (if coach has 30 amp service) 50 amps AC at 120VAC (if coach has 50 amp service)

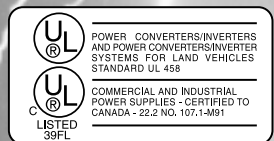
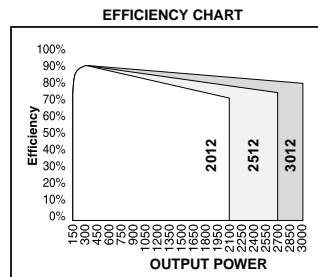
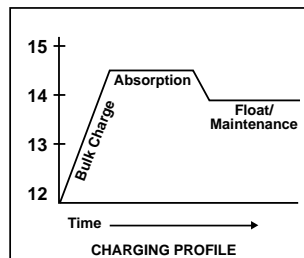
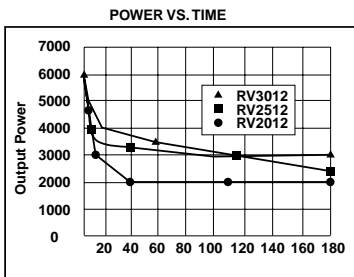
BATTERY CHARGER CHARACTERISTICS

Charging Profiles	Vented lead acid, sealed lead acid, (Gel Cell) or absorption glass mat (AGM)
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 status LEDs RC7GS - Full function remote with LCD display & prog. auto-gen start
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 & 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 - Inverters only	13.125" x 7.25" x 15.5"
Mounting Orientation	Shelf mount only
Unit Weight	45lbs (20.5kg) 50lbs (22.7kg) 60lbs (27.2kg)

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



THE POWER COMPANY



Available From:

5916 195TH ST. N.E. ARLINGTON, WA, USA 98223 · 360-435-8826 360-435-2229 FAX

www.traceengineering.com