



Model (TS) Tiger Series

INVERTER

New From Trace Engineering!

Low Cost, Reliable and Easy to Operate Inverter for Homes, Cabins, or Offices

Electricity - when and where you need it.

Trace Engineering has created an inexpensive solution for your small power needs. The new Tiger Series Inverter produces efficient, quiet and dependable electrical power. Where there are power outages or in remote areas with no power at all, the TS inverter provides standard electricity to operate necessary and everyday appliances such as lights, televisions, hand tools, computers, small refrigerators, fans, fax machines, phones, for small homes or offices. The TS Series Inverter is the solution for all of your small power requirements.

Powerful plus efficient power

Flexibility is a main feature of the TS inverter. Depending on the options chosen, the inverter package can be used for either backup or remote applications. Power can be supplied to a battery from the utility grid, photovoltaic (solar) panels, wind or engine generator. The TS inverter charges, regulates, and converts DC battery power into standard household electricity. This provides reliable power day and night for home and office appliances. The TS series optional battery charger automatically directs power to your batteries so its available when and where you need it. The TS series high continuous power rating allows it to operate several appliances for hours or days. Competitors inverters may only meet their ratings for a few minutes.

Everything in one box

The TS Series is more than an inverter. The TS is a complete package. It provides most of the components necessary for a reliable power system. (Does not include battery, generator, solar panel, etc.)

Optional features

- **Standby Option (SB)** - Adds a powerful three stage battery charger and 15 amp AC transfer relay.
- **Battery Temperature Sensor (BTS)** - adjusts the battery charger automatically based on the battery temperature - highly recommended for sealed type batteries. (Field installable)
- **Remote Control** - Allows you to turn on or off the inverter and check its status up to 50 or 100 feet away. RC8/50, RC8/100
- **Two Power Output Versions** - Standard 120 VAC / 60 Hertz or export 230 VAC / 50 Hertz outputs.
- **AC Outlet** - choice of standard US type duplex outlet, GFCI type duplex outlet, or a single European type cover plate.

Features for smooth operation

The TS series inverter/charger includes the superior features that Trace customers have come to expect.

- **Quiet operation** - No more sleepless nights listening to your generator
- **Microprocessor controlled** - State-of-the-art modified sine-wave AC power output
- **Easy installation** - Desktop, shelf or wall mountable with internally located connections
- **Automatic transfer** - The inverter instantly provides power when utility power is interrupted
- **Power savings** - Includes low idle power consumption and search mode features
- **LED indicators** - Shows inverter status, charger status, battery level and error conditions
- **Electronic short circuit protection plus** - A 15 amp AC input circuit breaker prevents damage from overloading
- **Low voltage cutoff** - Prevents damage to batteries from over-discharge. User selectable for deep or shallow discharge cycles. Time delay prevents false tripping
- **Full Automatic Operation** - Once installed the system can last for years with little or no maintenance required
- **Battery cables included**



From
Trace Engineering,
maker of the world's
most reliable
inverters

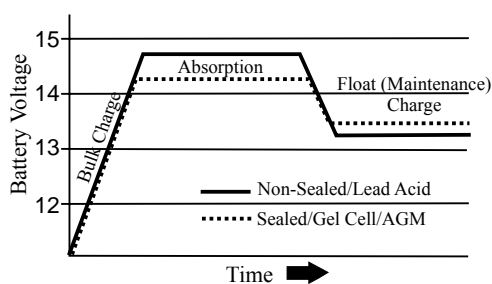
THE POWER COMPANY
Trace
ENGINEERING®

Model (TS) Tiger Series

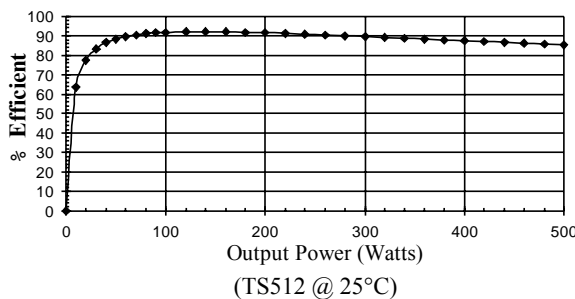
SPECIFICATIONS

Inverter Model Number	412E	512	712E	812	424E	524	724E	824
Continuous Power Rating @ 25°C	400VA	500VA	700VA	800VA	400VA	500VA	700VA	800VA
Max Instantaneous AC Current (1mS sample)	8 amps	16 amps	12 amps	24 amps	8 amps	16 amps	12 amps	24 amps
Typical Efficiency	> 90%							
NO LOAD POWER DRAW								
Nominal Input Voltage - DC	10-15 volts DC				22-28 volts DC			
AC Output Voltage (VAC -RMS)	230	120	230	120	230	120	230	120
Nominal Frequency	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
No-Load Idle Draw (Amps DC)	Approximately 5-6 Watts							
Search Mode	Approximately 1 Watt							
REGULATION								
Voltage Regulation	+/- 6.0%							
Frequency Regulation	+/-0.04%							
Waveform Type	Modified Sine Wave							
FEATURES								
Over Temp Protection	YES, transistor and transformer temperatures are monitored							
Over Load Protection	YES							
Search Mode	YES, threshold fixed at approximately 8 watts, defeatable							
Selectable Battery Type	YES, Lead Acid or Gell Cell							
Battery Cables	3.0 feet (1 m), #6 AWG (4.1 mm, 13.3mm ²) cables standard, longer cables optional							
PV Charge Controller	Not Yet Available							
AC Line Cord	NO	YES	NO	YES	NO	YES	NO	YES
AC Outlet	NO	YES	NO	YES	NO	YES	NO	YES
STANDBY CHARGER (SB) OPTION AND AC TRANSFER SWITCH								
Battery Charger (Max Charge Rate)	15 AMPS DC		25 AMPS DC		7.5 AMPS DC		12.5 AMPS DC	
AC Transfer Relay (Std. With battery charger)	15 AMPS AC							
Battery Charger Type	Three Stage (Bulk, Absorption, Float), computer controlled							
MISCELLANEOUS								
Enclosure Type	Powder Coated Aluminum, Ventilated, Designed for Indoor Use							
Mounting	Desktop or Wall Mount							
Dimensions (Inverter Only)	14"X 5.75"HX 5.375"W (355 cm X 140cm X 136cm)							
Shipping Weight	17 lbs. (7.8 kg) (400 and 500 Watt Units) and 23 lbs. (10.5 kg) (700 and 800 Watt Units)							

Three Stage Charging Profile



Tiger Series Efficiency Chart (Typical)



Year 2000 Note: Trace products do not utilize date sensitive chips. Therefore inverters and other Trace equipment are not subject to Year 2000 complications.

*specifications may change without notice

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