

Tiger Inverter

xantrex

Small scale, cost effective inverter



Applications

- ▶ Off Grid: Ideal for use in small homes where utility power is not available and electrical needs are modest. The Tiger Inverter can power most common electrical appliances such as lights, televisions, and hand tools.
- ▶ Backup Power: In areas where power is unreliable, the Tiger Inverter can be used to back up electrical equipment in your home or office.

Features

- ▶ 400, 500, or 800 watts of continuous power.
- ▶ Quiet, efficient operation.
- ▶ Backed by a two-year warranty.
- ▶ Front panel LED status indicator.
- ▶ Selectable settings for flooded lead acid or gel batteries.
- ▶ Low battery and overload protection circuitry.
- ▶ Fast, automatic switching (grid to battery and battery to grid) for backup power.
- ▶ All electrical AC and battery connection points are conveniently located on the rear panel.
- ▶ Comes with 3.0' (1 m), #6 AWG battery cables.
- ▶ 60 Hz models come with an AC line cord and AC outlet.

Options

- ▶ Optional remote control (RC8) that can operate up to 100 feet away.

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Electrical Specifications

Models	TS412E	TS424E	TS512	TS524	TS812	TS824
AC Input Voltage	230 VAC	230 VAC	120 VAC	120 VAC	120 VAC	120 VAC
AC Input Voltage Range (default)	153 - 243 VAC	153 - 243 VAC	80 - 127 VAC	80 - 127 VAC	80 - 127 VAC	80 - 127 VAC
AC Input Current	15 amps	15 amps	15 amps	15 amps	15 amps	15 amps
Continuous Power (@ 25 °C)	400 VA	400 VA	500 VA	500 VA	800 VA	800 VA
Efficiency (Typical)	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%
Output Voltage (RMS)	230 VAC	230 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Waveform	Modified Sine Wave					
Output Voltage Regulation (Maximum)	± 6%	± 6%	± 6%	± 6%	± 6%	± 6%
Frequency (Nominal)						
± 0.04% Crystal Controlled	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Surge Capability - 1 mSec	8 amps AC	8 amps AC	16 amps AC	16 amps AC	24 amps AC	24 amps AC
DC Input Voltage (Nominal)	12.6 VDC	25.2 VDC	12.6 VDC	25.2 VDC	12.6 VDC	25.2 VDC
DC Input Voltage Range	10 - 15 VDC	20 - 30 VDC	10 - 15 VDC	20 - 30 VDC	10 - 15 VDC	20 - 30 VDC
DC Current at Rated Power	40 amps DC	20 amps DC	51 amps DC	26 amps DC	80 amps DC	40 amps DC
Idle Consumption (Typical at Full Voltage)	< 6 watts	< 6 watts	< 6 watts	< 6 watts	< 6 watts	< 6 watts
Search Mode Consumption	< 1 watt	< 1 watt	< 1 watt	< 1 watt	< 1 watt	< 1 watt
Low Battery Protection (Enabled)	11.5 VDC	22 VDC	11.5 VDC	22 VDC	11.5 VDC	22 VDC
Maximum Charge Rate	15 amps DC	8 amps DC	15 amps DC	8 amps DC	15 amps DC	8 amps DC
Load Sensing (Inverter Mode)	Adjustable 5 to over 100 watts					
Power Factor (Allowed)	-1 to 1 pf	-1 to 1 pf	-1 to 1 pf	-1 to 1 pf	-1 to 1 pf	-1 to 1 pf
Input Frequency	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%

General Specifications

Specified Temperature Range	32 °F to 122 °F (0 °C to 50 °C)					
Enclosure Type	Indoor, ventilated, aluminum chassis with powdercoat finish					
Unit Weight	16.5 lb (7.5 kg)	16.5 lb (7.5 kg)	16.5 lb (7.5 kg)	16.5 lb (7.5 kg)	22.5 lb (10.2 kg)	22.5 lb (10.2 kg)
Shipping	17 lb (7.8 kg)	17 lb (7.8 kg)	17 lb (7.8 kg)	17 lb (7.8 kg)	23 lb (10.5 kg)	23 lb (10.5 kg)
Inverter Dimensions (H x W x D)	5.75" x 5.38" x 14" (14.6 cm x 13.6 x 35.5 cm)					
Shipping Dimensions (H x W x D)	7.75" x 8.75" x 19.25" (19.7 cm x 22.2 cm x 48.9 cm)					
Mounting	Desktop or wall mount					
Warranty	2 years					
Part Numbers	TS412E, TS424E, TS512, TS524, TS812, TS824 - Inverters					
	RC8 - Optional remote control					

Features & Options

Forced Air Cooling	Standard forced air fan
Remote Control	RC8 - optional on/off remote control with status LED indicator
Selectable Battery Type	Standard, lead acid or gel cell
Battery Cables	Standard 3.0' (1 m), #6 AWG (4.1 mm, 13.3 mm ²) cables – longer cables are optional
AC Line Cord	Standard on 60 Hz models, not available on E models
AC Outlet	Standard on 60 Hz models, not available on E models