

# Xantrex Trace UR-UPS Inverter/Charger

## Unrestricted Run-Time - Uninterruptible Power System



When utility power is not available, the Trace UR-UPS from Xantrex provides AC power to run critical electronics and electrical appliances. The inverter/charger takes DC energy stored in a battery, or battery-bank, and converts it to usable AC power to provide backup support. When AC power is restored, the Trace UR-UPS recharges the batteries and keeps them ready for future use.

The internal circuitry of the Trace UR-UPS protects batteries from over-discharge by shutting down the inverter when a user-defined, low-battery condition occurs. The inverter/charger is microprocessor-controlled and produces a modified sine wave for use with a variety of electrical appliances, including computers, lights, televisions, cash registers and power tools.

### Product Features

- ▶ 500 or 1000 watts output (depending on model) for entry-level, backup power applications
- ▶ Models for 12-volt or 24-volt DC input
- ▶ Automatic transfer to inverter mode when the AC supply is interrupted, with selectable transfer sensitivity
- ▶ Transfer time is only 8-10ms (with grid loss)
- ▶ Configurable battery type selection for liquid or gel type batteries
- ▶ Three-stage battery charger
- ▶ Control-panel LEDs for status and error indication
- ▶ Battery voltage indicator
- ▶ Selectable low-battery cut-out to protect the batteries from over-discharge
- ▶ Automatic cooling fan

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### Electrical Specifications

Model	DR512	DR524	DR1012	DR1024
	<b>Modified Sine Wave</b>			
<b>AC Input Voltage</b>	120 Vac	120 Vac	120 Vac	120 Vac
<b>AC Input Voltage Range</b>	90 - 140 Vac	90 - 140 Vac	90 - 140 Vac	90 - 140 Vac
<b>AC Input Current</b>	15 amps AC maximum - input circuit breaker limited			
<b>Continuous Power (@ 35 °C)</b>	500 VA	500 VA	1000 VA	1000 VA
<b>Efficiency (Peak)</b>	90%	90%	90%	90%
<b>Output Voltage (RMS)</b>	120 Vac	120 Vac	120 Vac	120 Vac
<b>Maximum Output Voltage Regulation</b>	± 5%	± 5%	± 5%	± 5%
<b>Typical Output Voltage Regulation</b>	2 - 5%	2 - 5%	2 - 5%	2 - 5%
<b>Frequency Crystal Controlled</b>	60 Hz	60 Hz	60 Hz	60 Hz
<b>Continuous Output</b>	4.2 Amps AC	4.2 Amps AC	8.3 Amps AC	8.3 Amps AC
<b>Surge Capability - 100 ms Rating</b>	8.4 amps	8.4 amps	16.6 amps	16.6 amps
<b>Transfer Time With Grid Loss</b>	8 - 10 ms	8 - 10 ms	8 - 10 ms	8 - 10 ms
<b>Automatic Transfer Relay</b>	15 amps	15 amps	15 amps	15 amps
<b>DC Input Voltage (Rated)</b>	12.6 Vdc	25.2 Vdc	12.6 Vdc	25.2 Vdc
<b>DC Input Voltage Range</b>	10.8 - 15.5 Vdc	21.6 - 31 Vdc	10.8 - 15.5 Vdc	21.6 - 31 Vdc
<b>DC Current @ Rated Power</b>	44 amps DC	22 amps DC	88 amps DC	44 amps DC
<b>Idle Consumption (Typical at Full Voltage)</b>	4 - 5 watts	3 - 4 watts	4 - 5 watts	3 - 4 watts
<b>Search Mode Consumption</b>	< 1 watt	< 1 watt	< 1 watt	< 1 watt
<b>Low Battery Protection (Enabled)</b>	10.8 Vdc	21.6 Vdc	10.8 Vdc	21.6 Vdc
<b>Maximum Charge Rate</b>	20 amps DC	10 amps DC	35 amps DC	17.5 amps DC

### Environmental Specifications

Model	DR512	DR524	DR1012	DR1024
<b>Operating Temperature</b>	32° F to 122° F (0° C to 50° C) Derate at temperatures above 40° C			
<b>Non-Operating/Storage Temperatures</b>	-67° F to 167° F (-55° C to 70° C)			
<b>Operating/Storage Humidity Limits</b>	20% - 95% RH (Non-condensing)			

### Physical Specifications

Model	DR512	DR524	DR1012	DR1024
<b>Dimensions (H x W x L)</b>	5.5 x 6.5" x 6.5" x 16.25"			
<b>Shipping Weight</b>	20 - 25 lbs	20 - 25 lbs	30 lbs	30 lbs
<b>Enclosure Type</b>	Screened/Powder-coated steel			
<b>Mounting</b>	Shelf-mount or Wall-mount indoors only			

### Feature & Options

<b>Forced Air Cooling</b>	Standard - forced air variable speed fan
<b>Charging Profiles</b>	Liquid or Gel
<b>Three-stage</b>	Standard - three-stage (bulk, absorption and float)

Note: Specifications subject to change without notice.