

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

Environmental Specifications

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

Physical Specifications

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

Feature & Options

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

Note: Specifications subject to change without notice.