

## The CR Inverter/Charger creates dependable electricity for a very low price!



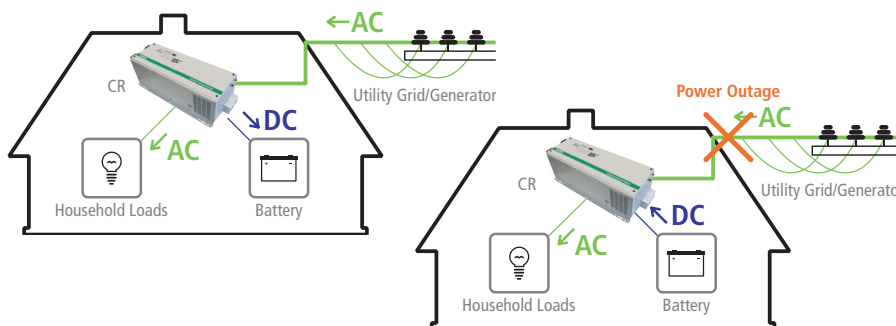
### Affordable backup power solution

The entry-level CR Series provides AC power without interruption to keep your critical equipment running during a power outage. Built with an automatic transfer switch, the CR instantly switches to battery power during a blackout or brownout. When AC power is restored it automatically recharges the battery.

Available in 1000, 1500 and 2400 watt models, it is ideal for powering common loads such as refrigerators, computers, lights, small televisions, radios and fans.

### Features

- ▶ Automatic, fast transfer ensures no intermittent loss of power to your critical loads
- ▶ Built-in battery charging ensures batteries are fully charged and ready to use, while protecting them from being overcharged
- ▶ Low and high battery voltage and overload protection circuitry
- ▶ Audible alarms to indicate low battery voltage, overload, and fault conditions
- ▶ Front panel LED indicators to provide status-at-a-glance



The CR Series combines the key benefits of uninterruptible power supplies with the extra runtime allowed by a larger battery bank. Backup power time is flexible – you can connect as many batteries as you need.

**120VAC, 60Hz & 230VAC, 50Hz  
Entry Level Inverter/Charger**

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## CR Series Inverter/Charger

## Electrical Specifications

Models	CR1012 (12Vdc, 120Vac/60Hz)	CR1512 (12Vdc, 120Vac/60Hz)	CR2412 (12Vdc, 120Vac/60Hz)
	CR1012E (12Vdc, 230Vac/50Hz)	CR1512E (12Vdc, 230Vac/50Hz)	CR2412E (12Vdc, 230Vac/50Hz)
	CR1024 (24Vdc, 120Vac/60Hz)	CR1524 (24Vdc, 120Vac/60Hz)	CR2424 (24Vdc, 120Vac/60Hz)
	CR1024E (24Vdc, 230Vac/50Hz)	CR1524E (24Vdc, 230Vac/50Hz)	CR2424E (24Vdc, 230Vac/50Hz)

## Invert Mode Specifications

Continuous Output Power	1000W	1500W	2400W
Surge Capability	1500W	2250W	3600W
Output Voltage	120 VAC / 230 VAC	120 VAC / 230 VAC	120 VAC / 230 VAC
Output Frequency	50 Hz / 60 Hz $\pm$ 0.3 Hz	50 Hz / 60 Hz $\pm$ 0.3 Hz	50 Hz / 60 Hz $\pm$ 0.3 Hz
Output Waveform	Modified Sinewave	Modified Sinewave	Modified Sinewave
Peak Efficiency (DC to AC)	86%	86%	86%
DC Input Voltage	12 V or 24 V	12 V or 24 V	12 V or 24 V
DC Input Voltage Range	12V battery 10.5V - 14.5V 24V battery 21V - 29V	10.5V - 14.5V 21V - 29V	10.5V - 14.5V 21V - 29V
DC Current at Rated Power	12V battery 101A 24V battery 50A	152A 74A	247A 122A
Low Battery Warning	12V battery 11V $\pm$ 0.2V 24V battery 22V $\pm$ 0.2V	11V $\pm$ 0.2V 22V $\pm$ 0.2V	11V $\pm$ 0.2V 22V $\pm$ 0.2V
Low Battery Shutdown	12V battery 10.5V $\pm$ 0.2V 24V battery 21V $\pm$ 0.2V	10.5V $\pm$ 0.2V 21V $\pm$ 0.2V	10.5V $\pm$ 0.2V 21V $\pm$ 0.2V

## Charger/Bypass Mode Specifications

AC Input Voltage Range	85 VAC-132 VAC / 184 VAC-253 VAC $\pm$ 4%	85 VAC-132 VAC / 184 VAC-253 VAC $\pm$ 4%	85 VAC-132 VAC / 184 VAC-253 VAC $\pm$ 4%
Reconnect Voltage Range	95 VAC-127 VAC / 194 VAC-243 VAC	95 VAC-127 VAC / 194 VAC-243 VAC	95 VAC-127 VAC / 194 VAC-243 VAC
AC Input Frequency Range	47 Hz~53 Hz / 57 Hz~63 Hz $\pm$ 0.3 Hz	47 Hz~53 Hz / 57 Hz~63 Hz $\pm$ 0.3 Hz	47 Hz~53 Hz / 57 Hz~63 Hz $\pm$ 0.3 Hz
Max Total AC Input Current	120 VAC 14.0 Arms (Charge + Bypass) 230 VAC 7.4 Arms	18.1 Arms 9.4 Arms	27.0 Arms 14.1 Arms
Rated AC Bypass Current	120 VAC 8.3 Arms 230 VAC 4.4 Arms	12.5 Arms 6.5 Arms	20.0 Arms 10.4 Arms
Relay Transfer Time	20 ms (typical)	20 ms (typical)	20 ms (typical)
Charging Voltage	12V battery 13.5 VDC 24V battery 27.0 VDC	13.5 VDC 27.0 VDC	13.5 VDC 27.0 VDC
Max Charging Current	12V battery 40A 24V battery 20A	40A 20A	50A 25A

## General Specifications

Operating Temperature Range	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Enclosure Type	Indoor, ventilated, steel chassis with powdercoat finish		
Unit Weight	40 lb (18kg)	44 lb (20kg)	61 lb (27.5 kg)
Inverter Dimensions	22.8 x 8.9 x 7" (579mm x 227mm x 179mm)		
Shipping Dimensions	26.75 x 12.5 x 12" (680 mm x 318 mm x 305 mm)		
Warranty	1 year		

Specifications subject to change without notice.