



CT Series

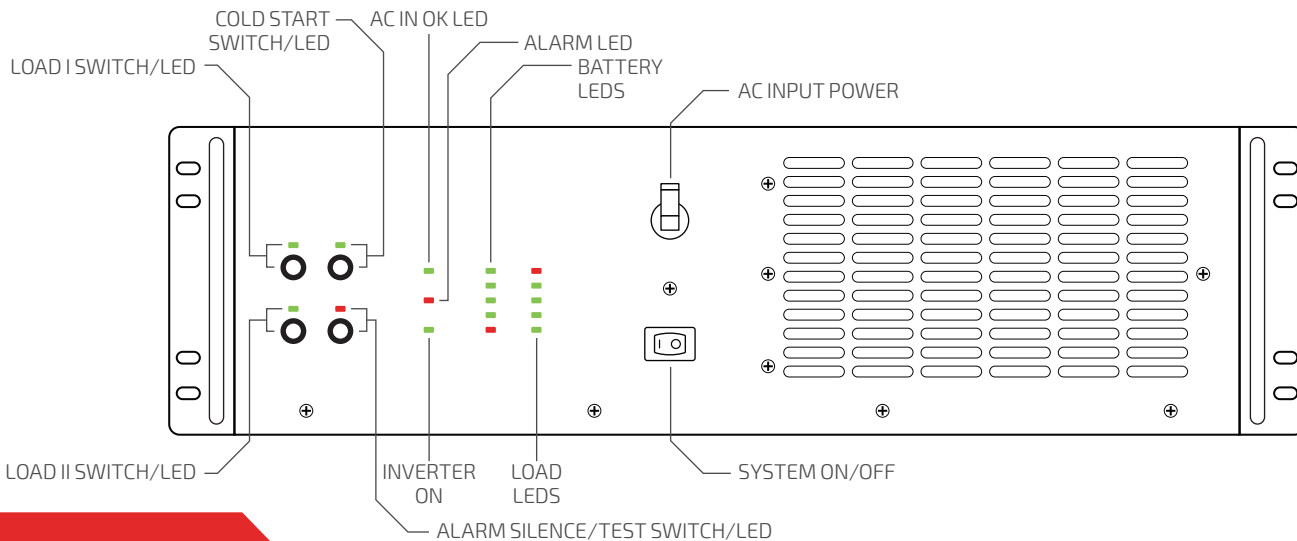
Designed for extreme environments, built for mission-critical applications



Overview

Clary's CT Series is an on-line double conversion UPS designed for unique mission-critical applications, such as offshore drilling rigs, refineries and shipboard use. All CT Series utilize power factor correction and can double as an electronic power conditioner/frequency converter. Available in a 3U rack-mount configuration with extended battery options, the CT Series is UL listed and supports RS232 and SNMP protocols. Custom configurations for

various input/output voltages are available beyond the standard ratings of 1250/1500/2000 and 2400 VA. Clary will build each system to meet specific application needs. A wide range of selectable features includes input/output isolation, switchable voltages, auto-sense capability, input circuit breaker protection, and input/output termination selection options. Please contact Clary and see how we can meet your unique requirements.



Features

- True on-line technology
- Power factor corrected for reliable and safe power
- Complete power distribution center
- Full microprocessor control to provide clean, regulated power
- Operates in extreme environments from 0°C to +40°C (+32°F to +104°F)
- Remote control of output receptacles
- Communications and control interface





Specifications

Electrical Input

Voltage	120 VAC +10%, -20% (other input voltages available)
Frequency	45 Hz to 65 Hz
Isolation	Yes, transformer

Electrical Output

Voltage	120 VAC ±3%
Frequency	Software selectable to sync with input utility or run at crystal controlled 50/60 Hz ±1 Hz
Crest Factor Ratio	<ul style="list-style-type: none"> · 50% load up to 4.8:1 · 75% load up to 3.2:1 · 100% load up to 2.4:1
THD	<ul style="list-style-type: none"> · 3.00% maximum (linear) · 5.00% maximum (non-linear)
Dynamic Response	±4% for 100% step load change 0.5 ms recovery time
Overload	<ul style="list-style-type: none"> · 110% for 10 sec · 200% for 50 ms
Isolation	Yes, transformer
UPS Protection	<ul style="list-style-type: none"> · Input and output short circuit · Input and output overload · Excessive battery discharge

Environmental

Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	0% to 95% non-condensing
Altitude	Sea level to 10,000 ft
Noise Level	39 dBA to 42 dBA at 5 ft

Mechanical

Input	<ul style="list-style-type: none"> · NEMA 5-15P plug with 6 ft cord (1250 - 1500 VA connectors), · NEMA 5-20P plug on 6 ft cord (2000 - 2400 VA connectors)
Outputs	NEMA duplex receptacles 5-15R, 1.25K-1.5K, 5-20R, 2K-2.4K
Cooling	<ul style="list-style-type: none"> · Forced air · Replaceable fan · Filter

Design

Standard Features	Power factor corrected input · True on-line continuous power · Fully regenerative · Low distortion sine wave output · Designed for non-linear loads · Extended brownout protection · RS232 data interface · Inverter powers load continuously · Continuous operation on -25% to +12% utility without draining batteries · Automatic bypass · AC output (2 channel load control) · Rear mounted ground stud
Certifications	<ul style="list-style-type: none"> · FCC Class A · IEEE 587/ANSI C62.4 · IEC 555 @ 120 VA · CUL · UL 1778
Typical Recharge Time (to 85% capacity @ 100% load)	5 hrs

Control and Indicators

Visual Indicators	<ul style="list-style-type: none"> · Battery level · Load level · AC in · Inverter on · Summary alarm · Alarm silence · Load on
Switches / Control Panel	<ul style="list-style-type: none"> · System power · Cold start · Load I and II · Test · Alarm silence
Audible Alarms	<ul style="list-style-type: none"> · Utility interrupt · Inverter failure · Overload · Low battery · Self test
Intelligent Computer Interfaces	<ul style="list-style-type: none"> · RS232 data interface (DB-9) · Full interactive remote computer monitoring and control of most features including load control (requires optional monitoring software) · Compatible with RUPS™ and RUPS II™ and other major UPS software products
Contact Closures	<ul style="list-style-type: none"> · DB-9 · Open collector

Options

SNMP Interface	Allows full control and monitoring interface over network connection. Compatible with HP Openview™, IBM Netview™, CA Unicenter TNG™, and other major software offerings.
Dry Contact Module	Optional

Configurations

Model	VA	Watts	Input Current	Output Current	Rating	Backup Time* 100% / 50% Load	Weight	Rackmount H x W x D
CT 2400R	2400	1680	18.3 A	20.0 A	2400 VA / 1680 W	5.0 minutes / 18.0 minutes	92 lb	5.25" x 19.0" x 23.0" (3U)
CT 2000R	2000	1400	14.3 A	16.7 A	2000 VA / 1400 W	5.0 minutes / 17.0 minutes	92 lb	5.25" x 19.0" x 23.0" (3U)
CT 1500R	1500	1050	10.7 A	12.5 A	1500 VA / 1050 W	5.0 minutes / 18.0 minutes	79 lb	5.25" x 19.0" x 23.0" (3U)
CT 1250R	1250	875	8.8 A	10.4 A	1250 VA / 875 W	5.0 minutes / 18.0 minutes	79 lb	5.25" x 19.0" x 23.0" (3U)

* Backup time is based on 5 Ah batteries