



DT Series

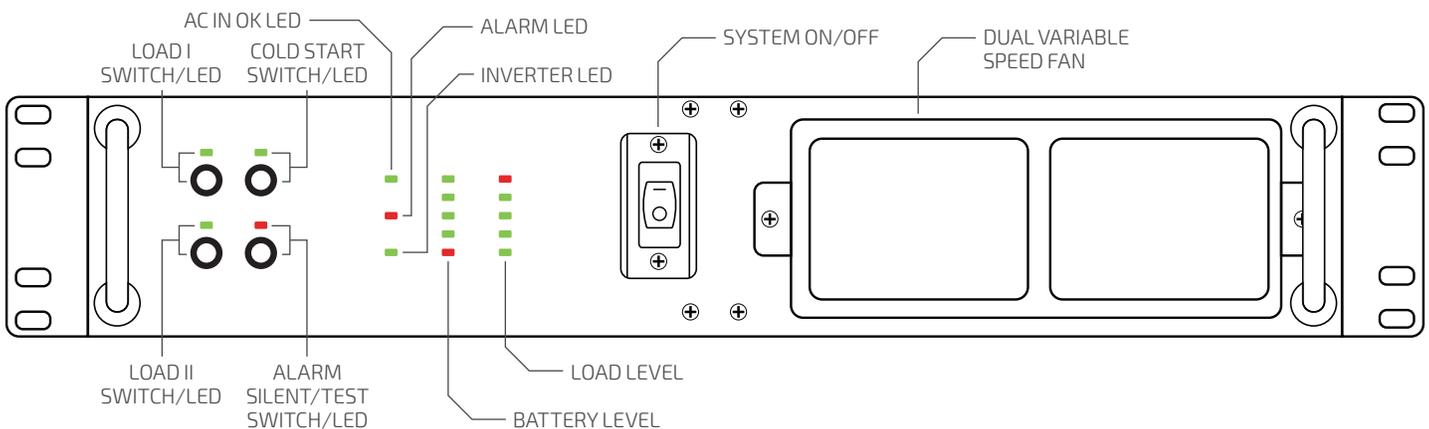
Premium quality and robust performance in demanding environments



Overview

The DT Series is a ruggedized digital UPS which features Clary's on-line double conversion technology. Available in five power levels ranging from 1.0 kVA to 2.4 kVA, the DT Series offers the highest reliability available on the market today. We consider it on-line double conversion technology at its best. Built for harsh and demanding environments, the DT Series operates across a temperature range of 0°C to -40°C. A high temperature (HT) version extending operation to 50°C is available as well as an extreme temperature version, the DT 1000 ET, which withstands temperatures from -40°C to +74°C. The UL listed DT is ideal for those areas not environmentally controlled and in remote locations. All DT Series systems

utilize power factor correction and RS232 and SNMP protocols are supported. The DT Series is offered in rack-mount or tower models and is highly configurable for use with a wide range of critical equipment. The DT 1000 ET utilizes an external battery pack while other DT Series models offer a variety of internal and external battery options to meet run-time requirements from a few minutes to a few hours. Clary's DT Series is the world's most advanced UPS for extreme environment applications. The DT Series protects valuable equipment and critical operations against a broad range of power anomalies, and provides continued operation in the event of power failure. See website for DT Series product details.



Features

- Communications and control interface
- True on-line technology
- Remote control of output receptacles
- Power factor correction
- Complete output power distribution
- Full microprocessor control





Specifications

Electrical Input

Voltage	120 VAC +12%, -25% (without battery discharge)
Frequency	45 Hz to 65 Hz
Current	7.2 A

Electrical Output

Voltage	120 VAC ±3%
Frequency	Software selectable to sync with input utility or run at crystal controlled 50/60 Hz ±1 Hz
Current	8.3 A
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	<1%
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
UPS Protection	<ul style="list-style-type: none"> · Input and output short circuit · Input and output overload · Excessive battery discharge

Environmental

Temperature	-40°C to +74°C (-40°F to +165°F)
Humidity	0% to 95% non-condensing
Altitude	Sea level to 10,000 ft
Noise Level	46 dBA at 5 ft

Mechanical

Input	NEMA 5-15P plug with 6 ft cord
Outputs	5-15R receptacles
Cooling	Low velocity forced air with user-selectable direction of airflow and user-replaceable filters

Design

Standard Features	<ul style="list-style-type: none"> · Power factor corrected input · Fully regenerative · True on-line continuous power · 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)	8 hrs (more time required with extended battery option)

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 · Battery test · 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	Full interactive remote computer monitoring and control of most features including load control (requires optional monitoring software)
Contact Closures	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.
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Configurations

Model	VA	Watts	Input Current	Output Current	Rating	Backup Time* 100% / 50% Load	Weight	Rackmount H x W x D
DT 2400R	2400	1680	18.3 A	20.0 A	2400 VA / 1680 W	4.5 minutes / 14 minutes	55 lb	3.5" x 19.0" x 17.0" (2U)
DT 2000R	2000	1400	14.3 A	16.7 A	2000 VA / 1400 W	5.0 minutes / 18.0 minutes	55 lb	3.5" x 19.0" x 17.0" (2U)
DT 1500R	1500	1050	10.7 A	12.5 A	1500 VA / 1050 W	5.0 minutes / 17.0 minutes	42 lb	3.5" x 19.0" x 17.0" (2U)
DT 1250R	1250	875	8.8 A	10.4 A	1250 VA / 875 W	7.0 minutes / 21.0 minutes	42 lb	3.5" x 19.0" x 17.0" (2U)
DT 1000R ET	1000	700	7.2 A	8.3 A	1000 VA / 700 W	5.0 minutes / 17.0 minutes	30 lb	3.5" x 19.0" x 18.0" (2U)

* Backup time is based on 5 Ah batteries

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