



Virtual Sense POWER

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- TRUE ON-LINE DOUBLE CONVERSION TECHNOLOGY FOR HIGH LEVEL OF PROTECTION
- DSP TECHNOLOGY
- PARALLEL REDUNDANCY CAPABILITY (FOR 6-10kVA MODELS)
- INTEGRATED SMARTCARD SLOT PROVIDING A CHOICE OF COMMUNICATIONS INTERFACES
- WIDE INPUT VOLTAGE
- FREQUENCY CONVERTER MODE
- ECO MODE
- EMERGENCY POWER OFF FUNCTION FOR 6-10KVA
- LONG RUNTIME AVAILABILITY
- 0.8 OUTPUT POWER FACTOR ALLOWING YOU TO RUN MORE LOAD

T3RT SERIES (1kVA-10kVA)

The T3RT is a rack tower online double conversion UPS. It is a physically small On-Line double conversion UPS but retains all the features normally associated with On-Line technology, but what is On-Line double conversion technology and why does it matter? Simply put "double conversion" is where the mains supply is rectified to a clean DC voltage and rebuilt into a very clean and regulated AC voltage, at all times your critical load runs from this clean no break supply.

Line-Interactive and Off-Line UPS's are single conversion, put in its crudest form your computer runs on semi regulated mains and will always suffer a small break in supply whilst the UPS moves from mains mode to battery mode in a mains fail situation.

PARALLEL (OPTIONAL)

A big advantage offered by the T3RT 6kVA to 10kVA is that by means of a simple cable the machines can be linked together to form a parallel N+1 system. This offers the client the opportunity to be either a fail safe system or the option to expand the power as the network grows. Up to three machines can be connected in this way making the T3RT a flexible and versatile solution.

UPS MANAGEMENT SOFTWARE

The UPS management software is installed on a server or workstation connected to each UPS via the serial or USB port. Power failure, power restored, battery failure or eight events will be detected and the user informed. A shutdown will be initiated when the batteries are exhausted or a technical problem occurs with the UPS. The UPS management software disconnects, logs out users and closes open applications (subject to application/operating system support) before shutting down the operating system itself.



STAR
T3RT SERIES
1kVA-10kVA



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Model *	ST3010RT	ST3020RT	ST3030RT	ST3060RT	ST3100RT
Topology	True On-Line, Double Conversion				
On-battery Waveform	Pure Sine Wave				
Input					
Maximum Capacity (VA/W)	1000VA/800W	2000VA/1600W	3000VA/2400W	6000VA/4800W	10000VA/8000W
Nominal Input	208/220/230/240VAC				
Input Voltage Regulation	110~300VAC ± 3% at 50% load, 176~300VAC ± 3% at 100% load				
Frequency Range	46~54Hz or 56~64Hz				
Output					
Nominal Output	208/220/230/240VAC				
Output Regulation	± 1%				
Output T.H.D	≤3% (Linear Load), ≤5% (Non-linear Load)				
Crest Factor	3:1				
Transfer Time	0ms				
Frequency Range (Synchronised Range)**	46~54Hz or 56~64Hz				
Frequency Range (Batt. Mode)	50Hz ± 0.1Hz or 60Hz ± 0.1Hz				
Battery					
Battery Type	12VDC/9Ah per cell				
Number of Batteries	2 cells	4 cells	6 cells	16 cells	
Recharge Time to 90%	4 hours			9 hours	
Charge Current of Standard Model	1A			1A/2A (Adjustable)	
Long-Run Model Charge Current	1A/2A/4A/6A (Adjustable)				
LCD Display					
Front Panel Indication – LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode and Fault Indicators				
Communication Interface					
Communication Port	RS232 & USB(Standard), AS400 or SNMP / HTTP (Optional)				
Environmental					
Audible Noise	< 50dBA @1 meter			< 55dBA @1 meter	< 58dBA @1 meter
Mechanical					
Dimensions (D x W x H mm) Standard Model	310 x 438 x 88 (2U)	410 x 438 x 88 (2U)	630 x 438 x 88 (2U)	UPS: 500 x 438 x 88 (2U) Batt.: 500 x 438 x 88 (2U)	UPS: 580 x 438 x 133 (3U) Batt.: 500 x 438 x 88 (2U)
Dimensions (D x W x H mm) Long-Run Model	310 x 438 x 88 (2U)	410 x 438 x 88 (2U)		500 x 438 x 88 (2U)	580 x 438 x 133 (3U)
Weight (Net Weight with Battery) (kgs) Standard Model	12	19	29.3	UPS: 15, Batt: 48	UPS: 18, Batt: 48
Weight (kgs) Long-Run Model	9	12	14.2	15	18

* All T3RT models have a long standby option with no built in batteries, add "-L" to the part number.

**Derate to 80% of capacity in Frequency Converter Mode and when output voltage is adjusted to 208VAC

All information contained in this brochure is purely indicative and can not be used to form any contractual obligations. Specification or design can be changed at anytime without prior notice.