



T3RSERIES
1kVA - 3kVA

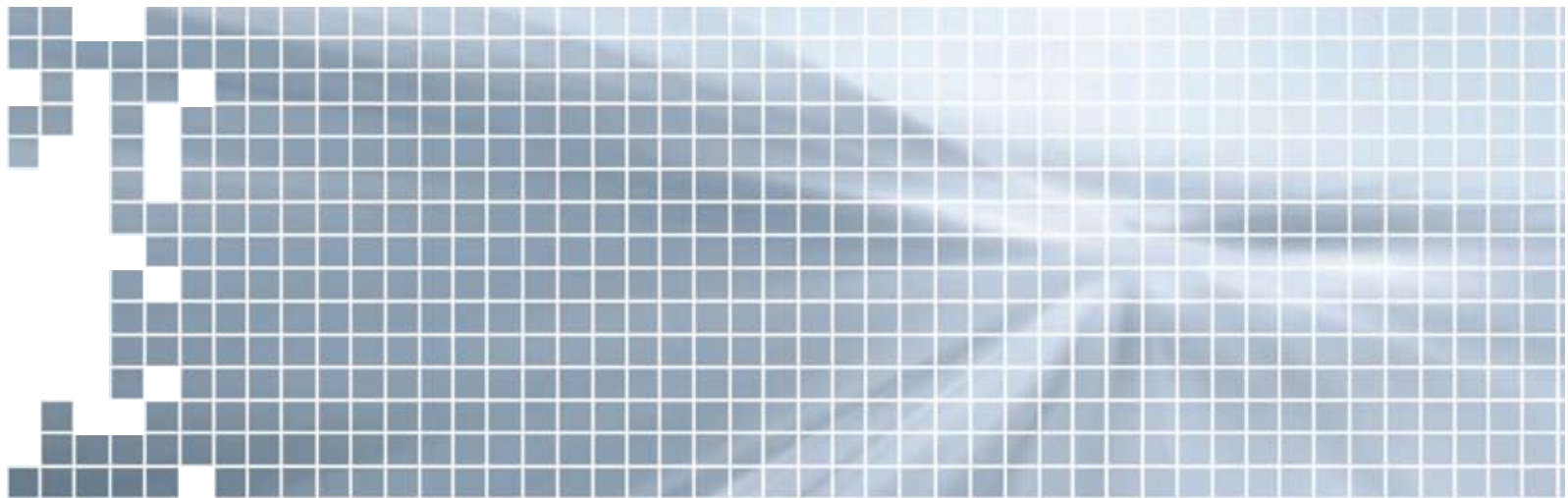


T3R SERIES

RACKMOUNT - 1kVA - 3kVA

With ever greater demands being made on valuable floor space, many IT managers are moving towards computer rack solutions rather than conventional floor standing options offered in the past. The same philosophy has affected the UPS industry with many UPS now being located with the computer inside the rack cabinet.

standard an LCD screen, RS232, USB port, battery extension options, battery monitoring, no-break supply, static switch, wide voltage input without using batteries, optional software, comms slot for SNMP, Relays or Optocoupler



On-Line UPS have historically been handicapped in this particular market sector, essentially for two reasons, size and price. Most IT managers have dealt with this problem by moving to Line-Interactive or Off-Line topologies. These technologies have fewer fail safe features and for the most part work only when a problem occurs. With the introduction of the T3R series these past limitations are no longer valid.

The T3R 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" means the mains supply is rectified to a clean DC voltage and rebuilt into a very clean and regulated AC voltage and at all times your critical load runs from this clean no break supply. Line-Interactive and Off-Line UPS are single conversion, so 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. The T3R offers a competitive price, even against the more basic technologies, but unlike these technologies you will get as

> Simple Network Management Protocol (SNMP)

The T3R SNMP external agent can be located up to 5 metres away from the UPS. Initial configuration is carried out by serial comms using any suitable terminal application (e.g. Hyperterminal for Windows). The embedded HTTP server presents an HTML interface to the network, which can be accessed from any web browser. All system parameters can be configured from here, including scheduled shutdown. A sophisticated Java applet provides full monitoring in real time, along with comprehensive event and history logs.



> UPS Management Software

The UPS management software is installed on a server or workstation connected to each UPS via the serial 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 network connections, logs out users and closes open applications (subject to app/os support) before shutting down the operating system itself.

- Extensive log files
- Scheduled battery and inverter testing
- Scheduled system shutdown/re-start
- User-customisable commands and messages
- Multiple UPS control from a single computer
- Remote Console Command module for remote multiple server shutdown
- Internal SNMP sub-agent for integration into existing NMS (e.g. HP OpenView, CA Unicenter)



Screenshot of Net Agent Mini Software



Screenshots of UPSilon Software

> Standard Properties

- True on-line double conversion technology for high level of protection
- DSP Technology (For 6-10kva)
- Parallel redundancy capability (6-10kva)
- Integrated smartcard slot providing a choice of communications interfaces
- Optional specialised UPS management software
- User friendly LCD display
- Failsafe internal bypass
- Switch with manual control
- Long runtime availability
- Advanced microprocessor control

“Online double conversion
rackmount solution”



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T3R SERIES

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	1kVA	2kVA	3kVA
Topology	True On - Line , Double Conversion		
On- battery Output Waveform	Pure Sine Wave		
Number of Phase	Single (1 ° 2W + G)		
INPUT			
Maximum Capacity (VA / W)	1000 VA / 700 W	2000 VA / 1400 W	3000 VA / 2100 W
Nominal Input Voltage	230 VAC		
Input Voltage Regulation	160~300 VAC Single Phase w/ Ground		
Nominal Input Frequency	50/60 ± 4 Hz		
Input PFC	0.95		
Input Short Protection	Circuit Breaker		
OUTPUT			
Nominal Output Voltage	220 / 230 / 240 VAC nominal		
Output Voltage Regulation	+ / - 2 %		
Output T.H.D	3% (Linear Load)		4% THD (Linear Load)
	6% (Non-Linear Load)		7% THD (Non-Linear Load)
High Efficiency Mode (AC to AC)	85%	85%	88%
High Efficiency Mode (DC to AC)	83%	83%	83%
Crest Factor	3:1		
Start on Battery	Yes		
Output Frequency	50 Hz + / - 0.2 Hz		
BATTERY			
Typical Backup Time (at Full load)	5 minutes	9 minutes	5 minutes
Battery Type	Sealed Lead-Acid maintenance-free 12VDC/ 7Ah per cell		
Numbers of Batteries	3 cells		8 cells
Recharge Time to 90%	5 hours		
ADVANCE WARNING DIAGNOSTICS			
Front Panel Indication - LCD	UPS Status, I/P Voltage & Frequency, O/P Voltage & Frequency, Battery Voltage, Battery Capacity, Loading %, Temperature, History Alarm.		
Audible Alarms	Battery Mode, Low Battery, Overload, Fault		
COMMUNICATION INTERFACE			
Communication port	RS232 (Standard) DB9 or USB or AS400 or SNMP / HTTP(Optional)		
SNMP Manageable	Yes		
ENVIRONMENTAL			
Operation Temperature	0 - 40°C		
Storage Temperature	- 15°C to 50°C		
Relative Humidity	20% to 90 % non-condensing		
Audible Noise	< 45 dBA @ 1 meter		< 50 dBA @ 1 meter
MECHANICAL			
Dimensions (W x H x D mm)	440 x 88 x 465 (W/ Internal battery)	440 x 88 x 465 (UPS only) 440 x 88 x 465 (External Battery Module)	
Weight (Net with Battery)(kgs)	15.5	35	36

