



POWERHOUSE

Reliable Power Solutions

- TRUE ON-LINE DOUBLE CONVERSION TECHNOLOGY FOR HIGH LEVEL OF PROTECTION
- DSP TECHNOLOGY (FOR 6-10kVA MODELS)
- PARALLEL REDUNDANCY CAPABILITY (FOR 6-10kVA MODELS AS STANDARD)
- 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

T3 SERIES (1kVA-10kVA)

The T3 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

A big advantage offered by the T3 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 T3 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.

SIMPLE NETWORK MANAGEMENT PROTOCOL (SNMP)

The T3 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 events and history logs.



STAR
T3 SERIES
1kVA -10kVA



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Model	ST3010	ST3020	ST3030	ST3060	ST3100
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	230VAC				
Input Voltage Regulation	160~300 VAC Single Phase w/ Ground			170~285 VAC Single Phase w/Ground	
Nominal Input Frequency	50/60 ± 4Hz				
Input PFC	≥0.95			≥0.98	
Input Short Protection	Circuit Breaker				
Output					
Nominal Output	220/230/240 VAC nominal				
Output Regulation	± 2%			± 1%	
Output T.H.D	≤3% (Linear Load) ≤6% (Non-Linear Load)	≤4% THD (Linear Load) ≤7% THD (Non-Linear Load)		≤2% THD (Linear Load) ≤6% THD (Non-Linear Load)	
High Efficiency Mode (AC to DC)	85%	85%	88%	> 88%	
High Efficiency Mode (DC to AC)	83%	83%	83%	> 88%	
Crest Factor	3:1				
Start on Battery	Yes				
Output Frequency	50 Hz ± 0.2 Hz			50 Hz ± 0.5 Hz	
Battery					
Typical Backup Time (at full load)	9 minutes	12 minutes	8 minutes	10 minutes	8 minutes
Battery Type	Sealed Lead-Acid maintenance-free 12VDC/7Ah per cell				12VDC/9Ah per cell
Number of Batteries	3 cells	8 cells		20 cells	
Recharge Time to 90%	5 hours			7 hours	8 hours
Charge Current of Long Standby Model *	8A			4.2A **	
Advanced Warning Diagnostics					
Front Panel Indication – LCD	UPS Status, I/P Voltage & Frequency, O/P Voltage & Frequency, Battery Voltage, Battery Capacity, Loading %, Temperature, History Alarm.				
Front Panel Indication – LED	Normal (Green), Warning (Yellow), Fault (Red)				
Audible Alarms	Battery Mode, Low Battery, Overload, Fault				
Communication Interface					
Communication Port	RS232 (Standard), DB9 or USB or AS400 or SNMP / HTTP (Optional)				
Environmental					
Audible Noise	< 45dBA @1 meter	< 50dBA @1 meter		< 55dBA @1 meter	
Mechanical					
Dimensions (W x H x D mm)	160 x 220 x 400	200 x 352 x 450		260 x 717 x 570	
Weight (Net Weight with Battery) (kgs)	15	34	35	90	93

* All T3 models have a long standby option with no built in batteries, this is the charge current of the long standby models. For long standby models, add "-L" to the part number.

** 6 and 10kVA models can have up to 25A charging capabilities when connected in parallel with the ST-CHARGER external super charger.

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.