

# POWERHOUSE DISTRIBUTIONS

## T4T SERIES 10kVA-15kVA

- TRUE ON-LINE DOUBLE CONVERSION TECHNOLOGY FOR HIGH LEVEL OF PROTECTION
- DSP TECHNOLOGY
- PARALLEL REDUNDANCY CAPABILITY (OPTIONAL)
- 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

## T4T SERIES

The T4T is a transformer isolated On-Line double conversion UPS 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 and is isolated from the input.

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 T4T 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 T4T 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 T4T 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**  
**T4T SERIES**  
10kVA - 15kVA



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SPECIFICATIONS*	ST4100TL	ST4150TL
Topology	True Online Double Conversion, Isolated Transformer Output	
<b>Input</b>		
Maximum Capacity	10000VA/ 7000W	15000VA/ 10500W
Nominal Input	380VAC	
Input Voltage Regulation	380VAC $\pm$ 25%	
Nominal Input Frequency	50Hz $\pm$ 5%	
Phase	Three Phase, 5 Wires	
Battery Voltage	192VDC	
<b>Output</b>		
Nominal Output	220VAC	
Output Regulation	220VAC $\pm$ 2%	
Waveform	Sinewave, $\leq$ 3% THD	
Switch Time	0ms	
Overload Capacity	125% for 60 seconds, 150% for 0.5 seconds	
Crest Factor	3:1	
Start on Battery	Yes	
Output Frequency	Automatic synchronous tracing when power supply normal, at 50Hz $\pm$ 0.5% when power supply abnormal	
Parallel Equal Current	$\leq$ 5% (only applicable to the parallel models)	
<b>Battery</b>		
Back up time	Any backup time can be accommodated	
Battery efficiency	$>$ 89%	
Charging	Intellectual MMBM battery control technique, unique multi-charging mode improving the reliability and lengthening the life of the batteries	
<b>Other Features</b>		
Panel Display	Input voltage, Output voltage, Load capacity, Battery voltage LED indicating lights show the working status	
Alarm	Mains supply abnormal, Low battery, Overload	
Protection Function	Protection for low battery, overload, over temperature, short circuit, output over voltage, output low voltage	
Parallel function	Random extending or N+1 redundancy parallel connection (only applicable to the parallel models)	
<b>Communication Interface</b>		
Communication Function (Optional)	RS232 communication port supports UPSilon 2000 software. Supports SNMP adapter for network management.	
Remote Control (Optional)	Independent digital remote control at the distance of 1000 meters supported by RS485, which supports remote monitoring	
Dry connection (Optional)	The port allows a 2A current, convenient and safe	
<b>Environmental</b>		
Audible Noise	$<$ 60dBA @1 meter	
Work Temperature, Relative Humidity	0~40°C, 0~95%(no condensation)	
Altitude	Meet GB/T 7260.3-2003 standard	
<b>Mechanical</b>		
Dimensions (W x L x H mm)	300 x 740 x 700	400 x 800 x 1180
Weight (without Batteries) (kgs)	135	160

\* All T4T models have a parallel redundant option add "-P" to the part number.

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.