

T3T Series with isolation transformer (2kVA-15kVA)



AEC T3T Series with isolation transformer (2kVA-15kVA)

Product Benefits:

- 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

T3T SERIES

The T3T 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 T3T is that by means of a simple cable the machines can be linked together to form a parallel N+1 system (only for 10kVA and 15kVA models). 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 T3T a flexible and versatile solution.

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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 T3T 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.

Full specifications can be found on the next page

SPECIFICATIONS	ST3020T	ST3030T	ST3050T	ST3060T	ST3100TL	ST3150TL
Topology	True Online Double Conversion, Isolated Transformer Output					
INPUT						
Maximum Capacity (kVA/Kw)	2/1.4	3/2.1	5/3.5	6/4.2	10/7	15/10.5
Input Voltage Regulation	220VAC ±25%					
Nominal Input Frequency	50Hz ± 5%					
Battery Voltage	48V DC	96V DC	192V DC			
OUTPUT						
Output Regulation	220VAC ± 2%					
Waveform	Sinewave, ≤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 ± 0.5% when power supply abnormal					
Parallel Equal Current	N/A				≤5%	
BATTERY						
Back up time**	15 mins	25 mins	10 mins	10 mins	Any backup time	
Battery efficiency	>80%	>87%			>89%	
Charging	Intellectual MMBM battery control technique, unique multi-charging mode improving the reliability and lengthening the life of the batteries					
OTHER FEATURES						
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*	N/A				Random extending or N+1 redundancy parallel connection	
COMMUNICATION INTERFACE						
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					
ENVIRONMENTAL						
Audible Noise	< 55dBA @1 meter				< 60dBA @1 meter	
Work Temperature, Relative Humidity	0~40°C, 0~95%(no condensation)					
Altitude	Meet GB/T 7260.3-2003 standard					
MECHANICAL						
Dimensions (W x L x H mm)	230 x 620 x 470	230 x 635 x 690			300 x 740 x 700	400 x 800 x 1180
Weight (with & without batteries) (kgs)	65/52	82/58	90/57	108/61	92	140

* T3T10kVA and 15kVA models have a parallel redundant option, add "-P" to the part number

*** T3T 2kVA-6kVA models have a long standby option with no built in batteries, add "L" to the part number for these models. 10kVA and 15kVA models do not have internal batteries and only the long standby models are available*

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