

STAR T3 Series

On-Line UPS 1kVA – 10kVA Tower

Cost-Effective, DSP Technology, High Reliability Optimizes the System Availability.

Features & Benefits:

■ True On-Line Double Conversion

Ensure clean, no-break power for a wide range of mission-critical applications and highly manageable power protection.

■ DSP Technology (for 6/10 kVA only)

Provides precise output power waveform signal using intelligent controls with digital signal processing (DSP).

■ Parallel Redundancy Capability (for 6/10 kVA only)

Provides high availability through the redundancy by connecting up to 3X UPS units via a simple and cost-effective 25-pin cable to support the critical loads.

■ PWM Technologies w/ IGBTs

Increases system reliability and ensures perfect output power by using true pulse width modulation (PWM) to enable the Insulated Gate Bipolar.

■ Wide Input Voltage Range

In extreme brownout conditions, the UPS operates with weak or unstable power sources.

■ DC Start

DC power on.

■ Battery Self-test

Self-testing and monitoring of the battery voltage level to indicate if battery fails or requires replacement.

■ Microprocessor Based Control

Intelligent microprocessor control maximizes a highly reliable and easy-to-use emergency battery backup power.

■ User-friendly LCD or LED visual Display

This 2-line back lite LCD display enables field service engineers to easily troubleshoot the UPS without opening the box, thus reducing downtime.

■ Communication Ports

Standard RS232 and optional communication slot for either DB9, USB, or SNMP/HTTP cards.

■ Light Weight Design

Design for field installation, the light weight design requires only a single installer to put the system in place. This will significantly reduce on-the-job injuries and installation fees.

■ Long Runtime Capability

Extended battery runtime to reduce the downtime resulting from power problems costs industries billions of dollars over the course of a year.



Applications:

- Computers
- Workstations
- Other Electronic Peripherals

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Specifications					
Model No.	ST3010	ST3020	ST3030	ST3060	ST3100
Topology	True On - Line , Double Conversion				
On- battery Output Waveform	Pure Sine Wave				
Number of Phase	Single (1 Φ 2W + G)				
Input					
Maximum Capacity (VA / W)	1000 VA / 700 W	2000 VA / 1400 W	3000 VA / 2100 W	6000 VA / 4200 W	10000 VA / 7000 W
Nominal Input Voltage	230 VAC				
Input Voltage Regulation	160~300 VAC Single Phase w/ Ground			170~285 VAC Single Phase w/ Ground	
Nominal Input Frequency	50/60 \pm 4 Hz				
Input PFC	\geq 0.95			\geq 0.98	
Input Short Protection	Circuit Breaker				
Output					
Nominal Output Voltage	220 / 230 / 240 VAC nominal				
Output Voltage Regulation	+ / - 2 %			+ / - 1 %	
Output T.H.D	\leq 3% (Linear Load) \leq 6% (Non-Linear Load)	\leq 4% THD (Linear Load) \leq 7% THD (Non-Linear Load)		\leq 2% THD (Linear Load) \leq 6% THD (Non-Linear Load)	
High Efficiency Mode (AC to AC)	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 (Full load)	5 minutes	9 minutes	5 minutes	8 minutes	5 minutes
Battery Type	Sealed Lead-Acid maintenance-free 12VDC/7AH per cell				12VDC / 9AH per cell
Numbers of Batteries	3 cells	8 cells		20 cells	
Recharge Time to 90%	5 hours			7 hours	8 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.				
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) Yes				
SNMP Manageable					
Environmental					
Operation Temperature	0-40 $^{\circ}$ C				
Storage Temperature	- 15 to 50 $^{\circ}$ C				
Relative Humidity	20% to 90 % Non-Condensing				
Audible Noise (at 1 meter from surface of unit)	< 45 dBA @ 1 meter	< 50 dBA @ 1 meter		< 55 dBA @ 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



Other major UPS monitoring Software and SNMP / HTTP Cards compatible with all Star T3 series

• Internal or External Networking Cards:



• UPSilon via RS232

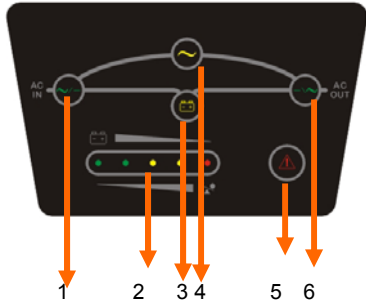


• Rups via Contact Closure (DB9)



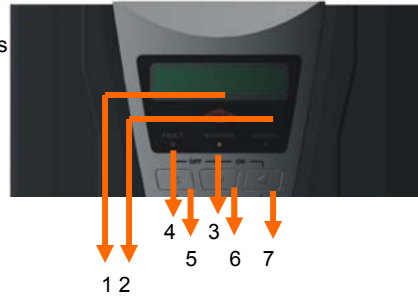
Front Panel:

LED



1. Line LED (green)
2. Load & Battery Capacity LEDs
3. Battery LED (yellow)
4. Bypass LED (yellow)
5. Fault LED (red)
6. Inverter LED (green)
- 7&8. Off button
- 8&9. On & Test/Silence button

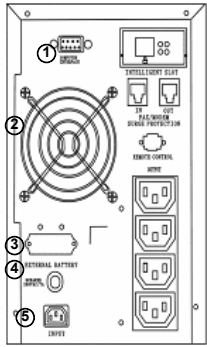
LCD



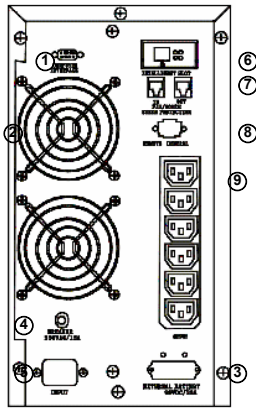
1. 2-line LCD Display
2. Normal LED (green)
3. Warning LED (yellow)
4. Fault LED (red)
- 5&6. Off button
- 6&7. On button
- 5&7. Test/Silence button



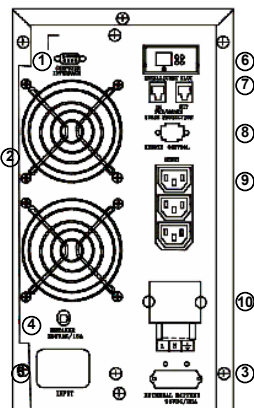
Rear Panel



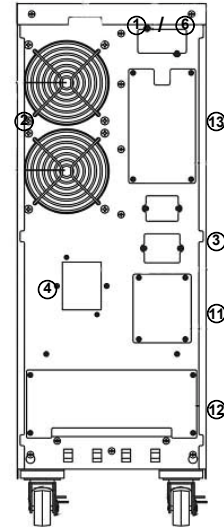
1kVA



2kVA



3kVA



6/ 10kVA

1. Standard RS232 Port
2. Fan
3. External Battery Slot (Option)
4. Input Breaker
5. Inlet
6. Communication ports: DB9, USB, AS400, SNMP/HTTP (Option)
7. Surge Protection: RJ11
8. LCD Remote Control (Option)
9. Outlets (IEC, German)
10. Outlets (Terminal Block for 3kVA only)
11. Maintenance Bypass Switch (for 6/10kVA)
12. Input & Output Terminal Blocks (for 6/10kVA)
13. Parallel port (for 6/10kVA)

Note: Specification changes without notice.

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