

# CLEANLINE

uninterruptible power supply  
True On-Line Double Conversion Design



## KEY Features:

- True on-line double conversion design UPS
- DSP technology guarantees high performance
- Wide input voltage range 110-300Vac
- 50/60 Hz frequency converter mode
- MIMIC LCD for real-time UPS status display
- Auto self-testing system while turning on UPS
- ECO mode operation for energy saving
- Emergency power off (EPO) function
- Programmable power management output (Tower model)
- Selectable output voltage via LCD panel
- Cold start function
- Smart battery charger design to optimize battery performance

### Tower and 19" Rack-mount Model

T-6000, TR-6000:	6kVA/4.2kW
	Option for 6kVA/4.8kW
T-10K, TR-10K:	10kVA/8kW

- Battery charger with temperature compensation technology
- Adjustable battery numbers
- Short circuit protection
- Lightning and surge protection
- Built-in USB and RS-232 communications port for management software
- Built-in maintenance bypass switch (Tower model)
- Generator compatible
- **Optional external maintenance bypass switch**
- **Optional compatible with SNMP protocol**
- **Optional hot standby mode and N+X parallel redundancy**
- **Optional isolation transformer**

1. RS-232
2. Intelligent Slot
3. USB
4. EPO
5. Output Breaker
6. Output Terminal
7. Battery Connector
8. Input Breaker
9. Cooling Fan
10. Control Output Signal port
11. Parallel Connection
12. Maintenance Bypass Switch
13. Output Outlet



19" Rack-mount (TR-6000, TR-10K)



T-6000, T-10K

#### TECHNICAL SPECIFICATION

Tower Model		T-6000		T-10K
19" Rack-mount Model		TR-6000		TR-10K
Power Rating		6kVA/4.2kW	6kVA/4.8kW (Option)	10kVA/8kW
<b>Input</b>	Voltage Frequency Phase Power factor	110-300Vac at 50% Load, 220Vac ±20% at 100% load (±27% Option) 50Hz ±10% Single phase with ground >0.99 @ nominal voltage (100% Load)		
<b>Output</b>	Voltage Voltage regulation Frequency Overload recovery UPS Design technology Crest factor Harmonic distortion Output waveform Transfer time	208/220/230/240Vac ±1% 50 or 60Hz ±0.1% (Battery mode) Auto transfer to UPS True on-line double conversion, Full digitized microprocessor controlled 3 : 1 ≤3% THD (Linear load), ≤6% THD (Non-Linear load) Pure sinewave 0 ms		
<b>Efficiency</b>	AC mode Battery mode ECO mode	>89% >88% >95%		
<b>Protection and Filtering</b>	Surge protection Overload protection Short circuit protection	220V (IEEE6100-4-5 level 3) UPS Automatic bypass if overload between 110% to 130% at 60 seconds and more than 130% at 1 seconds UPS Output cut off immediately or input fuse/circuit breaker protection		
<b>Battery</b>	Type Typical recharge time to 90% Management Battery protection Cold Start (DC start) Back up time Expansion back up time	Sealed, Maintenance-free lead acid batteries 8 hours Self-test, Adjustable battery transfer points and alarm setting Cut off without draining any current when battery is low Yes 15-30 minutes (Depending on computer load) Depending on customer required		
<b>Indicators</b>	Status	UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault conditions		
<b>Audible Alarm</b>	Battery mode Low battery Overload Fault	Sounding every 4 seconds Sounding every second Sounding twice every second Continuously sounding		
<b>Dimension (DxWxH mm)</b>	Tower	592 x 250 x 576		
	19" Rack-mount	580 x 438 x 133 (3U)		668 x 438 x 133 (3U)
<b>Weight (kg)</b>	Tower (with battery)	81		83
	19" Rack-mount (without battery)	17		20
<b>Environmental</b>	Operating temperature Relative humidity Noise level	0-40 °c 0-95% (Non-Condensing) <45dB@1 Meter		
<b>Interface</b>	Smart RS232 USB SNMP(Option)	Software supports windows family, Linux, Sun solarris, IBM aix, Compaq true64, SGI IRIX, FreeBSD, HP-UX and MAC Windows family and MAC OS Power management from SNMP manager and web browser		

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