

RAPTOR-5K

Overview

The high-quality online double-conversion UPS that offers the ideal power protection for heavily loaded equipment

Designed for office and data center applications, the RAPTOR Series adopts double-conversion topology to provide seamless Pure Sine Wave output. The products are compatible with generators to prolong power continuity. The UPSs also adopt ECO Mode to help save on energy costs, Smart Battery Management (SBM) to extend battery lifespan, and multifunction LCD readout to display precise information. The power management software allows users to easily control and monitor the UPS system.

Features

- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Input power factor 0.99 with PFC
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card optional)
- Cold start
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

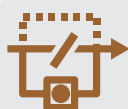
Application

Raptor 5kVA, Tower model application areas

- Data Network: Mid - range Servers (Windows and Linux), Wi-Fi Applications & Data networks
- Small Data Center Rooms
- Voice Networks: Cellular Sites, Voice Over IP (VOIP), Very small Aperture Terminals (VSAT) PBX And IT-enabled PBX Automation industries
- Process Automation Equipment: Programmable Logic Controllers (PLS) and Cash Machines (ATM)

Advanced protection for :

- Infrastructure
- Industrial and Medical IT
- Networking
- Storage
- Telecom



Online (Double Conversion) UPS Topology



Extended Battery Module (EBM)



Zero Transfer Time



Remote Management Capability



Smart Battery Management



UPS Parallel Expansion



ECO Mode



Maintenance Bypass Switch

Angustos

Angustos was founded in 2000 and is now regarded as one of the foremost manufacturers of Uninterruptible Power Supply, IT equipments,...

For more than 20 years our customers have been convinced by our core competencies in extending, switching and distributing standardised computer signals.

We are committed to established international standards. We can provide customers with complete Datacenter & Power solutions as well as OEM/ODM services. We can cover even from medium to small business, factory & industrial, military & government, home office & personal use.

Model Name	RAPTOR-5K
Power Rating	5 kVA / 5 kW
GENERAL	
UPS Topology	Online Double Conversion
ECO Technology	Online ECO Mode Efficiency > 96%
Parallel Expansion	Max. Units up to 4
Active PFC Compatibility	Yes
INPUT	
Nominal Voltage	208/220/230/240Vac $\pm 10\%$, Single Phase
Input Voltage Range	110~286Vac
Rated Input Current (A)	27.3A
Power factor	≥ 0.99
Frequency Range	40~70Hz (50/60Hz, 50 ± 10 Hz, 60 ± 10 Hz)
Frequency Detection	Auto-sensing
Input Connector type	Hardware Terminal Block
OUTPUT	
Voltage	208/220/230/240Vac, Single Phase
Voltage Regulation	$\pm 1\%$
Output Voltage Setting	Configurable
Output Frequency	(50 \pm 0.1%, 60 \pm 0.1%)Hz
Power Factor	1
Overload Protection	Internal Current Limiting, Circuit Breaker, Fuse
Overload Protection (Line Mode)	105~125% Load for 10 min, 125~150% Load for 1 min, 150~170% Load for 10 sec, >170% Load for 1 sec
Overload Protection (Battery Mode)	105~125% Load for 2 min, 125~150% Load for 30 sec, >150% Load for 1 sec
Overload Protection (Bypass Mode)	125~150% Load for 1 min, 150~170% Load for 10 sec, >170% Load for 1 sec
Harmonic distortion	THDv < 2% Linear load, THDv < 5% Non linear load
Efficiency AC-AC	Up to 94%
Output Connector type	Hardware Terminal Block
BATTERY	
Voltage	240VDC
Runtime@50% Load(min)	18.5
Runtime@100%Load(min)	7.5
Typical Recharging Time	6-7 hours
Charging current (Max.)	1.35A
INDICATORS	
LED display	Battery mode, Line mode, Bypass mode, , ECO mode, Battery low voltage, Overload & UPS fault
LCD display	Input frequency, Input voltage, Output frequency, Output voltage, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time
Alarm	Battery mode : beeping every 4 seconds; Battery low : beeping every second; Overload : beeping twice every second; Fault : continuously beeping
PHYSICAL & STANDARDS & ENVIRONMENT	
Dimension(WxDxH)/Weight	191× 460× 720mm (with wheel) / 70kg
SAFETY	IEC/EN 62040-1, IEC/EN 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)
Environment	Operating temperature : 0°C - 40°C; Storage temperature : -25°C~55°C; Humidity range : 20~95%RH @ 0~40°C (Non condensing) Altitude : < 1500m, derating required when >1500m; Noise level < 55dB @1 Meter with 5kVA

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design